Control panel-siren-keypad
SH320AU / SH340AU / SH380AU

DAITEM

GM Techtronics

INSTALLATION MANUAL

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You have just bought a DAITEM control panel and we would like to thank you for your confidence.
To install your control panel in the best conditions, we advise you to:
1. read the precautions to be taken below as well as the "Introduction" and "Operation" chapters,
2. follow the chronological order of the manual as it describes the successive operations to be performed.

Recommendations
The user must not attempt to access the device's internal parts, except areas described in this manual. If the user does access these parts, the product guarantee will be considered null and void and DAITEM shall not be held responsible for any problems. Touching the device's internal parts and/or electronic components can damage the product. Furthermore, the device is designed in such a way that these parts and components do not need to be accessed for operation or maintenance purposes.

Any use of this equipment not described in this instruction manual carries a risk of malfunction.

IMPORTANT: the sounding level of the siren can cause hearing disorders and the necessary precautions must therefore be taken when testing triggering.

The conditions governing application of the contractual guarantee and After-Sales Service are described in the general product catalogue and can be sent to you upon request.

The installation and maintenance must be carried out according to standards' in force in the country where the system is installed and should be carried out by a competent installer. The installer is alone responsible for recommendations put forward and installation work. The installer must comply with applicable regulations as well as the recommendations in this installation manual. The installer is alone responsible for any system operating problems caused by non-compliance with these

1. Introduction

IMPORTANT
- **Some functions are only available with control panel versions 2.0.0 or later (enter # 5 0 3 # # on the control panel keypad to check the version).**
- **Operational differences in relation to former ranges are described in the compatibility booklet available in the Daitem Installers section at www.daitem.co.uk.**

Control panels manage:
- **intrusion protection,**
- **technical protection,**
- **fire protection,**
- **tamper alerts,**
- **system device faults.**

Protection against intrusion is ensured by intrusion detectors that have first been programmed for recognition by the control panel.
The triggering of alarms depends on the system status and type of detectors activated.
The **protection of individuals** (e.g. **silent alarm**), and **technical** and **fire** protection devices operate **24 hours a day**.
The control panel is protected against opening and removal.
If an alarm is triggered, the dialler and sirens are activated.

The control panel, which can control 2 to 8 separate protection groups (according to the type of control panel), is fitted with:
- an integral control keypad,
- a siren,
- a speech synthesis loudspeaker.

The different types of control panel are:

Control panel reference	Number of groups	Number of detectors	Number of user codes
SH320AU	2	20	32
SH340AU	4	40	
SH380AU	8	80	

The installation of an optional transmission module (not originally installed in the control panel) confers two additional functions on the control panel.
Via its different communication networks, the transmission module makes the following possible:

1. remote alerts in case of intrusion or events occurring on the protected site.
- The control panel-dialler warns individual correspondents and/or a remote monitoring centre in the event of:
  - intrusion,
  - technical alarms,
  - fire alarms,
  - tamper alerts,
  - faults in one of the system devices.
- In the event of intrusion, the control panel-dialler makes the following remote operations possible:
  - listen-in and speak-out/talk-back,
  - visual alarm confirmation via the transmission of images or films from the image transmission motion detectors and/or compatible IP cameras installed on the protected site.

2. remote access to the protected site:
- alarm system operation,
- parameter-setting,
- checking.

Depending on its reference, the transmission module uses different media (see table opposite, unused media must be declared).

When installing the product, it should be assumed that the transmission module can have three transmission media: PSTN, GSM/GPRS and ADSL.

The transmission modules are:

Module reference	Transmission media		
SH501AX	PSTN	-	Ethernet (ADSL)
SH502AX	-	GSM/GPRS	
SH503AX	PSTN	GSM/GPRS	
SH504AX	-	-	

→ Only concerns transmission modules using the media indicated (**example here**: GSM/GPRS and Ethernet (ADSL)).

System responses:

Intruder advances further on to premises

WARNING

- Control panel: 2 s audible beeps
- External siren, 3 choices possible:
  - discreet sounding triggered (2 s) + strobe flashes (5 s)
  - discreet sounding triggered (2 s)
  - strobe flashes (5 s)

DETERRENCE

- Control panel: 5 s audible beeps
- Telephone transmission (choice) (1)
- External siren, 3 choices possible:
  - discreet sounding triggered (5 s) + strobe flashes (5 s)
  - discreet sounding triggered (5 s)
  - strobe flashes (5 s)

PREALARM

- Control panel: siren triggered for 15 s + telephone transmission (choice) (1)
- External siren, 3 choices possible:
  - discreet or loud sounding triggered (2) + strobe flashes (15 s)
  - discreet or loud sounding triggered (15 s)
  - strobe flashes (15 s)

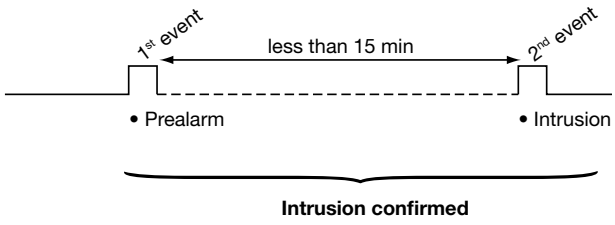
INTRUSION

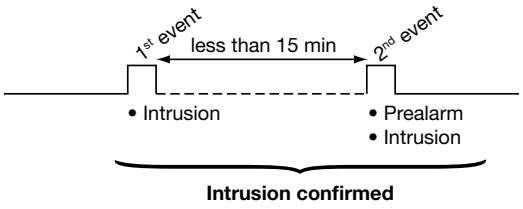
- Control panel: siren triggered for 90 s + telephone transmission (1)
- External siren: loud sounding + strobe flashes for 15 min.

Confirmation of Intrusion alarms

Intrusion alarms can be confirmed if they are **preceded by a 1st event** within a **specific lapse of time**.
The intrusion attempt is confirmed if the intruder is detected twice leading to specific control panel messages.

Confirmation of intrusion





IMPORTANT: confirmation is validated when 2 events in a row are detected by 2 different detectors.

(1) If transmission module installed.
(2) Loud triggering if Prealarm only confirmed.

2. Preparation

2.1 Precautions to be taken into account before installing the system

2.1.1 Site diagnosis before installation

Before installing the system and deciding on the best place for each product, a **diagnosis of the site to check its radio transmission range must first be performed**. It is especially important to carefully check a number of specific points including those relating to the type of professional premises:

- **distances or surfaces to be monitored:** generally bigger on professional premises than residential sites,
- **materials used:** metallic materials are often used in walls and partitions,
- **modifications to the internal configuration of the home or premises:** these can be frequent (addition of walls or furniture, storage of materials, etc.).

The range has been especially studied for all of these cases.
Nevertheless, system reliability does depend on the place where products are installed.
This is why we recommend performing a detailed survey of the site, with a focus on the following points:

- **All metallic materials represent an obstacle to the propagation of radio transmissions** and are likely to have a considerable impact on the link between two products.
  Thus, the following cases must be avoided:
  - installation of products in the immediate vicinity of apparent or hidden metallic materials (reinforced concrete walls for example), etc.,
  - metal walls, shelves, frames or trellises between a product and the control panel or a radio repeater relay.
  - installation of the control panel or a relay in a plant room or in the immediate vicinity of other electrical or computer products.

  If the above environments cannot be avoided, it **is highly advisable to install a radio repeater relay** to get around these obstacles.
- **Any modification to the internal configuration or layout of the home or premises is likely to have a considerable impact on the link between two products:**
  - reorganisation of the premises (addition of walls or furniture, etc.),
  - reorganisation of a workshop or storage area,
  - storage areas with variable capacities (notably metallic materials),
  - mobile metallic doors or partitions,
  - parking of vehicles (handling trucks, vehicles in a garage).

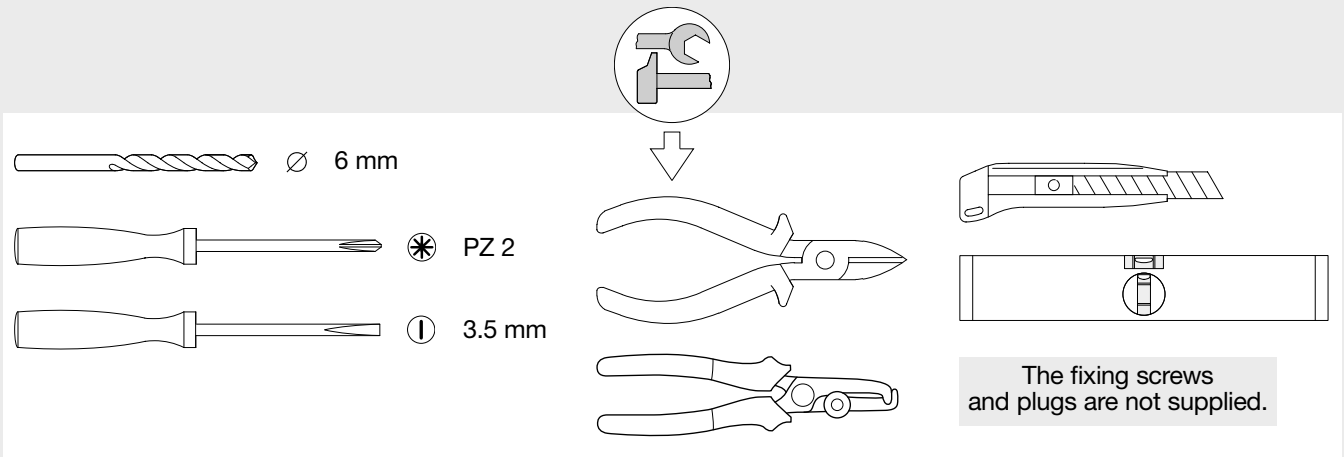
In all cases where such variations are likely, it is highly advisable to use a radio repeater relay to reinforce the link and get around potential obstacles between various products and the control panel.
We also advise you to draw users' attention to this fact and to check the radio links again every time the configuration of the premises is changed.

2.1.2 Checking radio links during installation

To ensure long-lasting reliability of the radio links, it is essential to check each one in Installation mode once all the products have been installed (see chapter on "Checking the products and radio links" in this manual).
If the layout of the premises is likely to be changed, it is advisable to check products and links for every possible configuration.

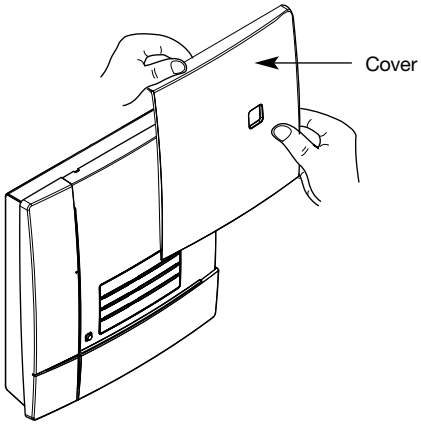
IMPORTANT: if these instructions are not complied with, random and frequent radio link losses between the various products may be detected.

2.2 Tooling required

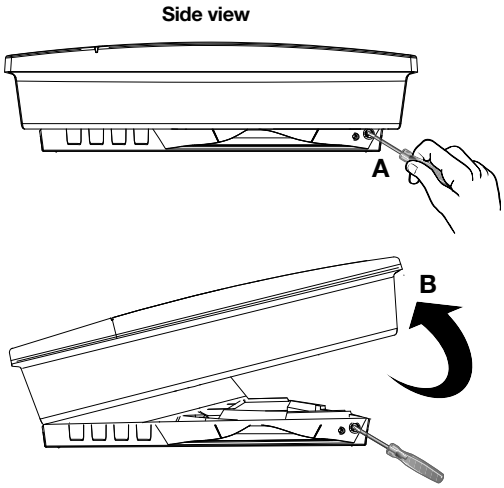


2.3 Opening the control panel

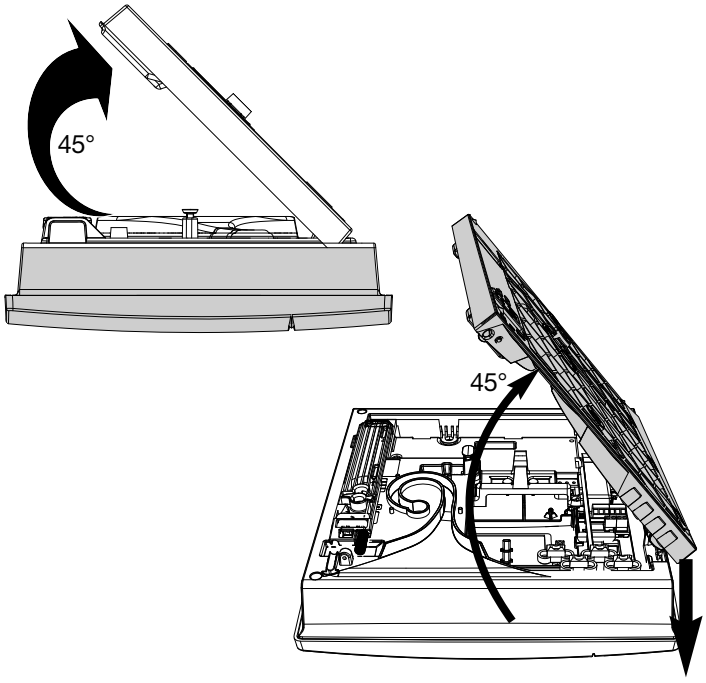
1. Remove the cover.



2. Insert a screwdriver into the bottom right-hand side (**A**) of the base and push on it in order to open the control panel (**B**).

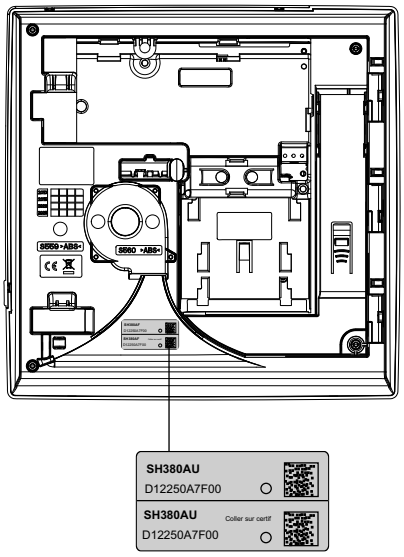


3. Place the dialler on a flat surface and then remove the base by inclining it an angle of 45° and pulling it downwards.



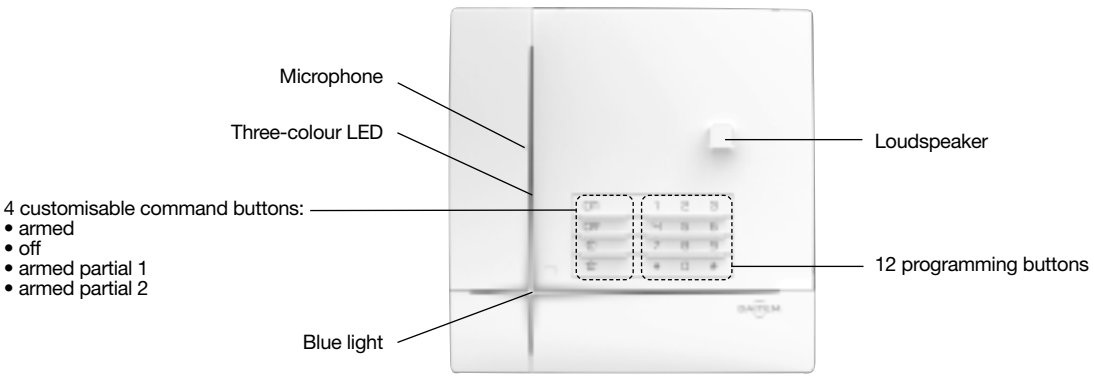
4. Guarantee sticker

Remove the pre-cut part of the guarantee sticker and stick it to the guarantee certificate inside the user manual supplied with the control panel. If you are adding to an existing system, use the guarantee certificate supplied with this product.



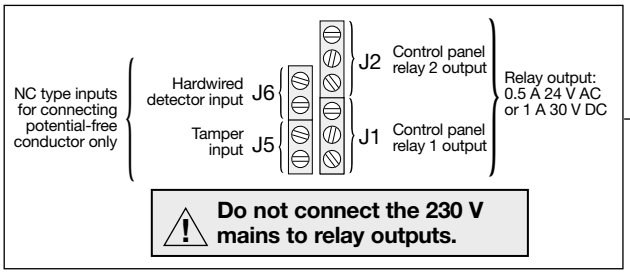
2.4 Description

Control panel



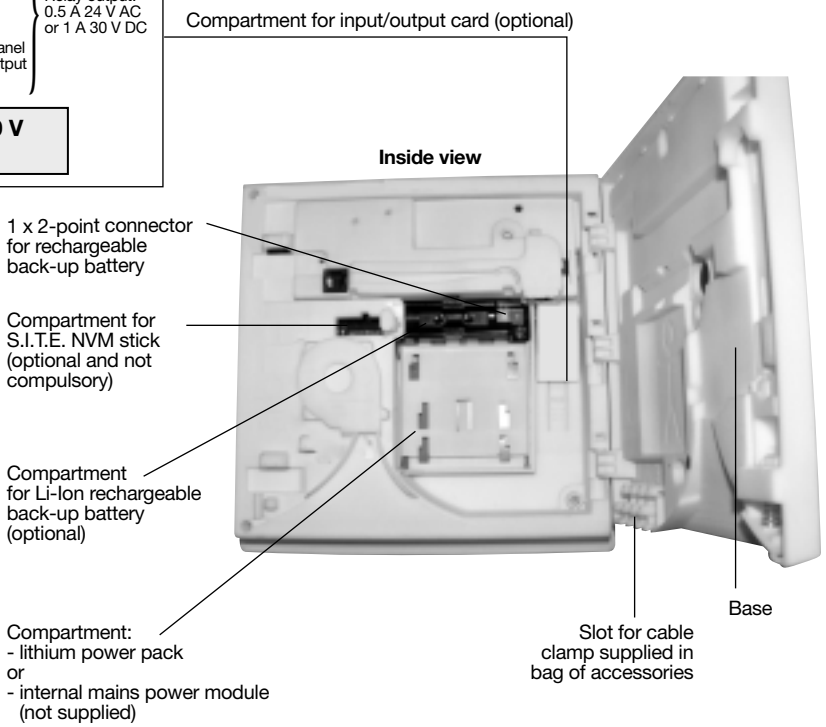
LED indications			
LEDs		**LED status**	**Meaning**
Three-colour LED	red	steady	button pressed or line occupied
		continuous rapid flashing	operation blocked when powered
		12 s maximum rapid flashing	connection test, date and reference
		1 flash every 5 s	permanent indication of test mode
		2 flashes every 10 s	permanent indication of installation mode
		3 rapid flashes	error
	green	steady for 10 seconds	valid access code
		steady	recording of 10 s maximum voice message
	orange	rapid flashing	during message saving (1) (no other vocal personalisation possible)
		1 flash every 20 s	system fault (power fault, media fault (2) or loss of product radio link) in user mode and when system is disarmed
Blue light		modulated indication	mode change: installation, test and use
			arming or disarming
			system status command
			one of the 4 customisable keys pressed (arm, disarm, arm partial 1 and 2)

(1) If SITE NVM stick or transmission module installed.
(2) If transmission module installed.


NC type inputs for connecting potential-free conductor only
Hardwired detector input
J6
Tamper input
J5
J2
Control panel relay 2 output
J1
Control panel relay 1 output
Relay output: 0.5 A 24 V AC or 1 A 30 V DC
Do not connect the 230 V mains to relay outputs.

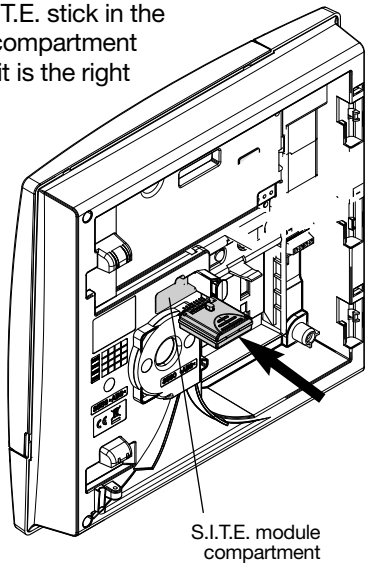
CAUTION: the system is sold without S.I.T.E. module, it is an option and allows:
- **the storing of the parameters of all the products of the system,**
- **the storing of the recorded vocal messages.**

IMPORTANT: connection and the disconnection of the S.I.T.E module must.
ONLY be done when the Control panel is UNPOWERED !


Compartment for input/output card (optional)
Inside view
1 x 2-point connector for rechargeable back-up battery
Compartment for S.I.T.E. NVM stick (optional and not compulsory)
Compartment for Li-Ion rechargeable back-up battery (optional)
Compartment:
- lithium power pack
or
- internal mains power module (not supplied)
Base
Slot for cable clamp supplied in bag of accessories

2.5.1 Installing the S.I.T.E. NVM stick (with power off)

Insert the S.I.T.E. stick in the appropriate compartment making sure it is the right way round.



The S.I.T.E. Module allows:

- saving all the parameters and personalised vocal messages and loading this information into the Control Panel without the need to reprogram the system.
- the transfer of the personalized vocal messages of the Control Panel into a separate transmitter.

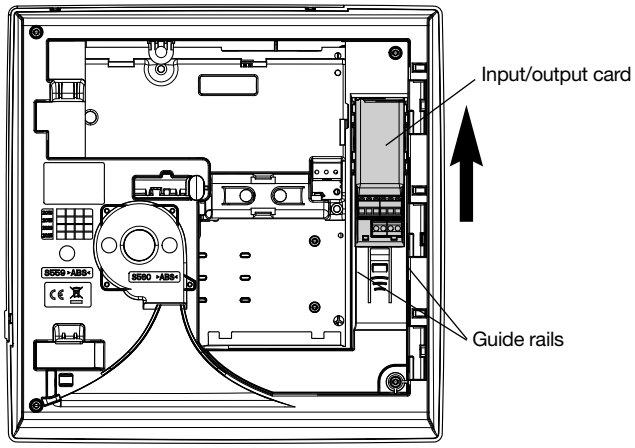
If the S.I.T.E. module is virgin and the power station is already configured, the parameter setting and the programming information is transferred into the S.I.T.E. module.
If the Control Panel is virgin and S.I.T.E. module is full, the data stored in the S.I.T.E. module is transferred into the Control Panel.
If the Control Panel is configured and S.I.T.E. module is also full, and the 2 sets of data are different the system announces an anomaly, and start-up is delayed until the S.I.T.E. module becomes compatible by updating itself with the data from the Control Panel. The assumption is that the Control Panel data is correct.

CAUTION: the transfer time of the data can be long.

If using an input/output card and a transmission module, the input/output card must be installed first.

2.5.2 Installing the input/output card (with power off)

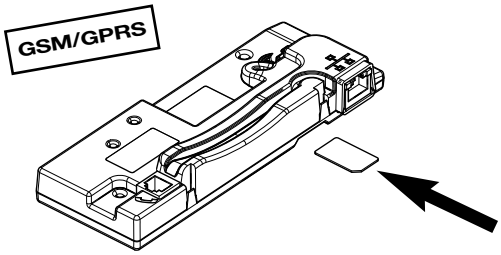
1. Position the input/output card on the guide rails.
2. Slide the input/output card to the top until it is locked into position.



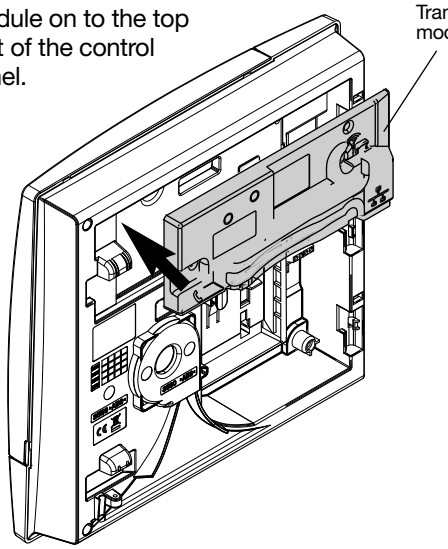
2.5.3 Installing the transmission module (with power off)

1. Insert the SIM card into its compartment following the direction indicated below the module.

IMPORTANT: the transmission module is only compatible with mini SIM cards.



2. Clip the transmission module on to the top part of the control panel.



2.6 Power supply

INSTALLATION MODE

Type of power supply to be installed according to media used:

- 2 x (3.6 v, 13 Ah) lithium power pack, BatLi 22
- Li-Ion = 3.7 V/1.2 Ah Li-Ion rechargeable back-up battery
- Mains power module = 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module

Media used	Control panel without transmission module	Control panel with telephone transmission module/media available			
		SH501AX PSTN+ Ethernet (ADSL)	SH502AX GSM/GPRS+ Ethernet (ADSL)	SH503AX PSTN+GSM/GPRS+ Ethernet (ADSL)	SH504AX Ethernet (ADSL)
PSTN+Ethernet (ADSL)	/	mains power module + Li-Ion	/	mains power module + Li-Ion	/
GSM/GPRS+ Ethernet (ADSL)	/	/	mains power module + Li-Ion		/
PSTN+GSM/GPRS +Ethernet (ADSL)	/	/	/		/
(PSTN+GSM/GPRS) only	/	/	/	• BatLi 22 + compulsory Li-Ion ***or*** • mains power module + Li-Ion for GSM incoming calls	/
PSTN only	/	• BatLi 22 ***or*** • mains power module + Li-Ion	/	• BatLi 22 ***or*** • mains power module + Li-Ion	/
GSM/GPRS only	/	/	• BatLi 22 + compulsory Li-Ion ***or*** • mains power module + Li-Ion	• BatLi 22 + compulsory Li-Ion ***or*** • mains power module + Li-Ion for GSM incoming calls	/
Ethernet (ADSL) only	/	mains power module + Li-Ion			
No remote transmission module	BatLi 22 ***or*** mains power module	/	/	/	/

When using the transmission module card:

Accessories and power supplies to be used

The accessories and power supply(ies) needed to install the control panel-dialler depend on the type of transmission module and media used. Before going out to the site, installers must make sure they have the additional accessories and power supply(ies) listed in the "Appendix" chapter (besides any accessories that are supplied with control panel and transmission module).

Declaring unused media

To prevent faults from occurring due to line cuts or the absence of transmission media in user mode, unused media must be declared. This parameter-setting operation is explained in the installation manual common to the control panel-dialler and the stand-alone dialler: **"Parameter-setting and implementation of transmission with transmission module**/chapter on "Main parameter-setting operations for the transmission module/Declaring unused media".

Indication of power faults on power-up

Please note:

- If the main power supply has to come from the mains power module:
  - a sufficiently charged Li-Ion back-up battery must be installed in case the control panel-dialler issues the voice message "Fault, Accumulator Voltage, Control panel", and the red LED flashes until the battery has been properly connected.
  - if there is a mains power supply problem, the control-panel dialler issues the voice message "Fault, Battery Voltage, Control panel".
- If the main power supply comes from the BatLi22 lithium power pack:
  - the Ethernet (ADSL) media will not be operational,
  - the GSM/GPRS media will be operational on condition that the Li-Ion back-up battery has been installed. In this case (powered without mains), the GSM/GPRS media will be configured by default for outgoing calls only.

If an improper power supply is used with the transmission module connected this will lead to an error indication following power-up.

What to do if?

Red LED	Voice message	Solutions
Constant rapid flashing	*"fault, power supply, transmitter plug"*	use the tables in the "Appendix/Accessories and power supplies to be used" chapter to check compatibility between the transmission module media and the control panel-dialler power supply.
	"fault, transmitter plug"	check the transmission module has been properly installed.
	"fault, battery voltage, control panel"	check the state of the main power supply: BatLi 22 lithium power pack or mains power module depending on the case.
	"fault, accumulator voltage, control panel"	if the power supply is from the mains, check that the Li-Ion back-up battery has been installed and is properly charged.

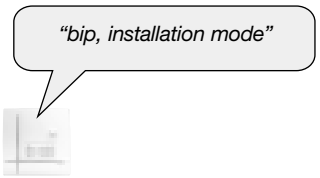
IMPORTANT
- **Use of the back-up battery is often compulsory for operation with a transmission module (see chapter 2.6 Power supply).**
- **the back-up battery is recharged on the control panel and is designed to back up the main power supply.**
- **Connect the back-up battery before the lithium power pack or internal mains power module.**
- **The back-up battery must be connected with the power off.**

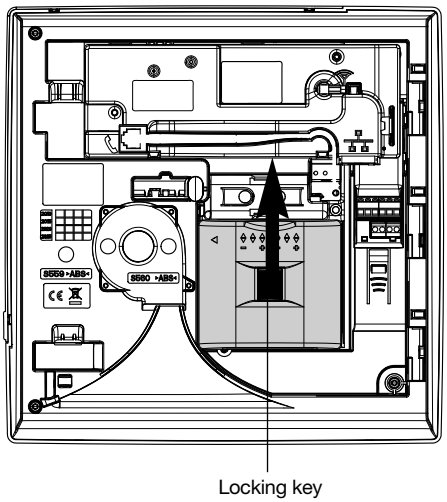
2.6.1 When using the lithium power pack (supplied)

1. Position the lithium power pack on the guide rails.

2. Slide the lithium power pack to the top until it locks into position.

3. After power-up you will hear the control panel voice message:





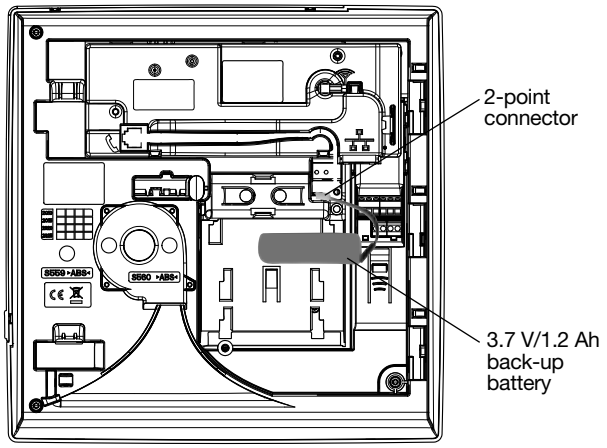
IMPORTANT
- **If the dialler does not respond as it should:**
  - **disconnect the lithium power pack and then the back-up battery,**
  - **wait for 2 min,**
  - **reconnect the back-up battery and then the lithium power pack,**
  - **check the correct voice message is issued.**

  If there is a problem, the control panel will issue the following message: *"Fault, battery voltage, control panel"*.
- **On power-up, the control panel is automatically in installation mode.**

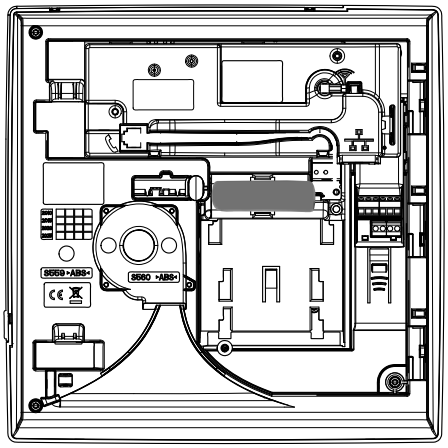
To remove the lithium power pack, press on the unlocking key and slide it downwards.

2.6.2 When using the BatLi 22 lithium power pack and the Li-Ion rechargeable back-up battery

1. Connect the rechargeable back-up battery to the 2-point connector.



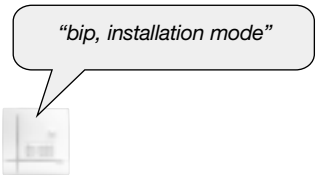
2. Clip the back-up battery into its compartment.

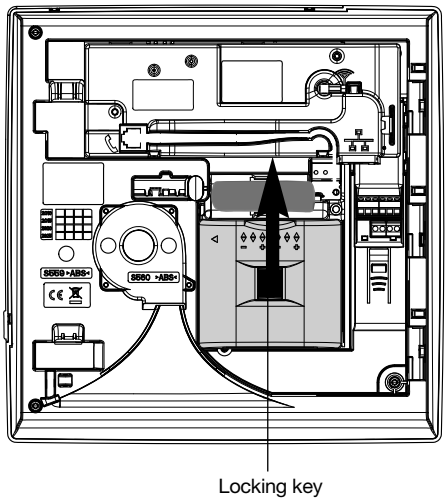


3. Position the lithium power pack on the guide rails.

4. Slide the lithium power pack to the top until it locks into position.

5. After power-up you will hear the control panel voice message:





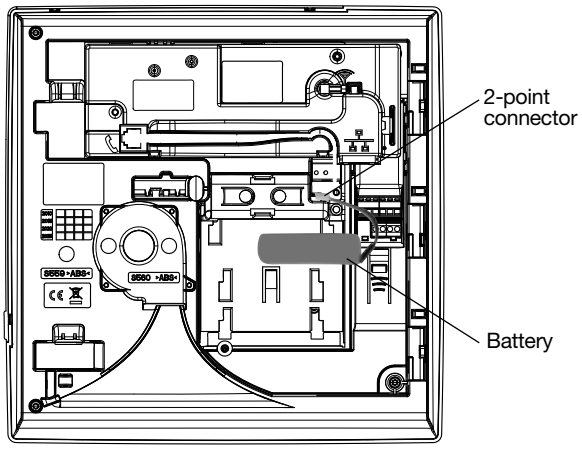
IMPORTANT
- **If the dialler does not respond as it should:**
  - **disconnect the lithium power pack and then the back-up battery,**
  - **wait for 2 min,**
  - **reconnect the back-up battery and then the lithium power pack,**
  - **check the correct voice message is issued.**

  If there is a problem, the control panel will issue one of the fault messages (see Indication of power faults on power-up on previous page).
- **On power-up, the control panel is automatically in installation mode.**

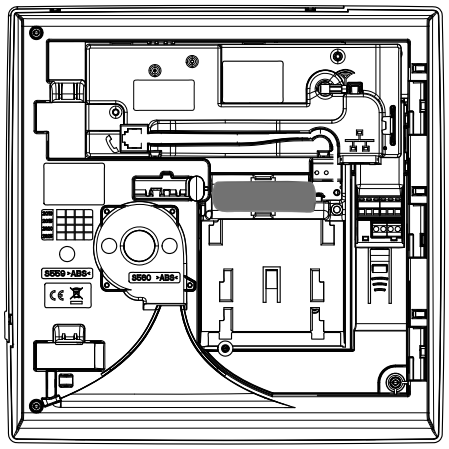
To remove the lithium power pack, press on the unlocking key and slide it downwards.

2.6.3 When using with the mains power module and Li-ion rechargeable battery (not supplied)

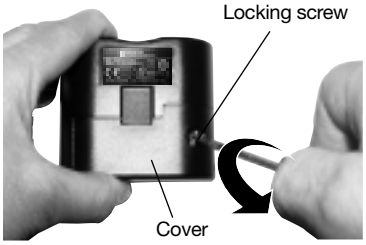
1. Connect the rechargeable back-up battery to the 2-point connector.



2. Clip the back-up battery into its compartment.



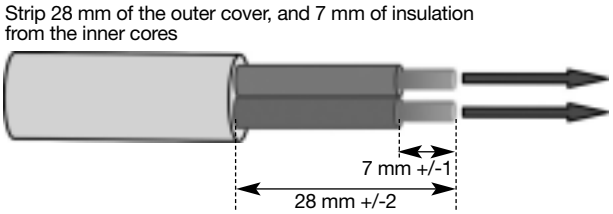
3. Loosen the internal mains power module locking screw.

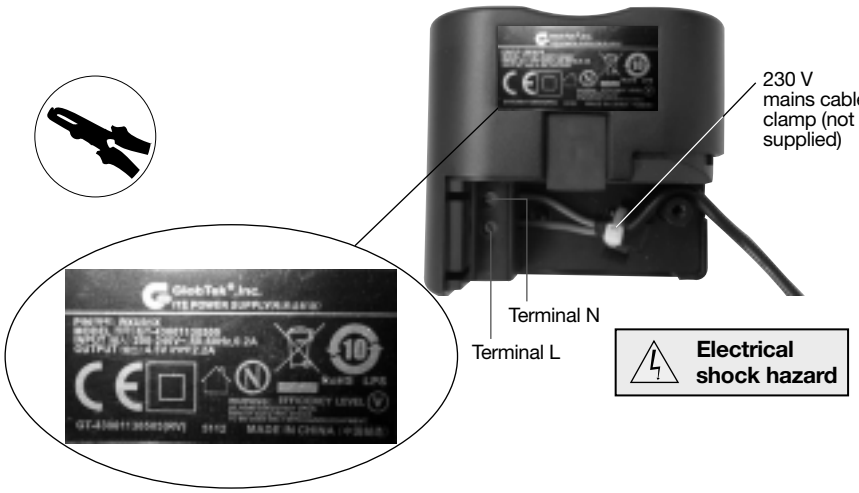


IMPORTANT: only use 4.5 V DC power module

RXU01X internal mains power module:
200-240 VAC
50-60 Hz / 4.5 VDC 2.2 A ⧈
double insulation symbol,
220 V power supply
without earth connection)

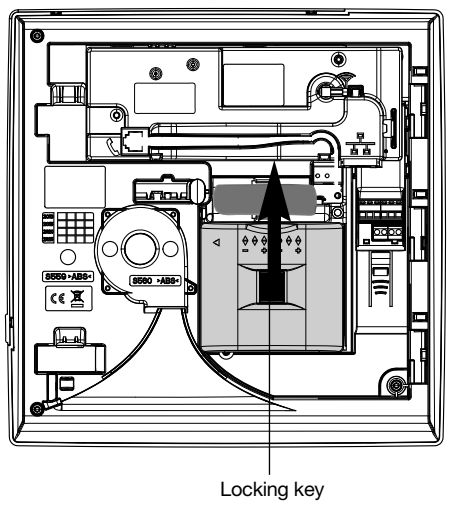
4. • Connect the mains power cable type H05VVF 2 x 0.75 mm², twin with diameter between 5 mm and 7.5 mm to the terminal block.
• Install a cable clamp.
• Put the cover back and tighten the closing screw.


Strip 28 mm of the outer cover, and 7 mm of insulation from the inner cores
Connect to terminal "N" of the terminal block (blue cable)
Connect to terminal "L" of the terminal block
7 mm +/-1
28 mm +/-2



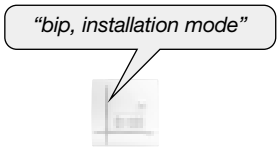
5. Position the mains power module on the guide rails.

6. Slide the module upwards until it locks into position.



7. Connect the other end of the mains cable to the mains power via an unswitched fused connection box.

8. Following power up, the control panel will issue the voice message:



To remove the module, press the unlocking key and slide it downwards.

IMPORTANT
- **If the control panel does not respond as it should:**
  - **disconnect the mains power supply then disconnect the power module,**
  - **disconnect the back-up battery,**
  - **wait for 2 min,**
  - **reconnect the back-up battery,**
  - **reconnect the power module and then the mains power supply,**
  - **check the control panel message.**
- **On power-up, the control panel is automatically in installation mode:**
  - **if the battery is not detected, the control panel issues the voice message *"fault, accumulator voltage, control panel"*, and the red LED flashes until the battery has been properly connected,**
  - **if there is a mains power supply problem, the control-panel issues the voice message *"fault, battery voltage, control panel"*,**
  - **if using the Mains power supply (RX01X) and requiring to change the type of power supply (BatLi22) this MUST be done totally UNPOWERED. It is IMPERATIVE to disconnect the standby battery (Li-Ion 3.7 V/1.2 AH) and wait for 2 minutes before re-connecting power.**

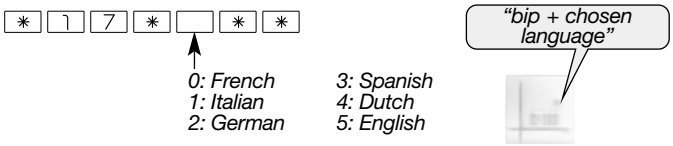
2.7 Modifying the language and modifying the volume of indications and speech synthesis system

INSTALLATION MODE

• Language

Depending on the user, you can replace the original system language, English, with a different language:

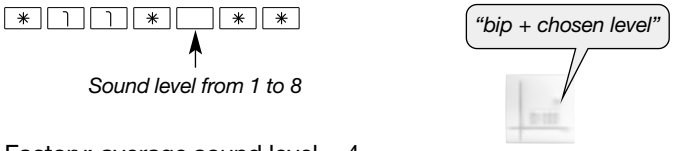
To select the language, programme:



Factory: English

• Setting the indication and speech synthesis volume

The level can be adjusted from 1 to 8.



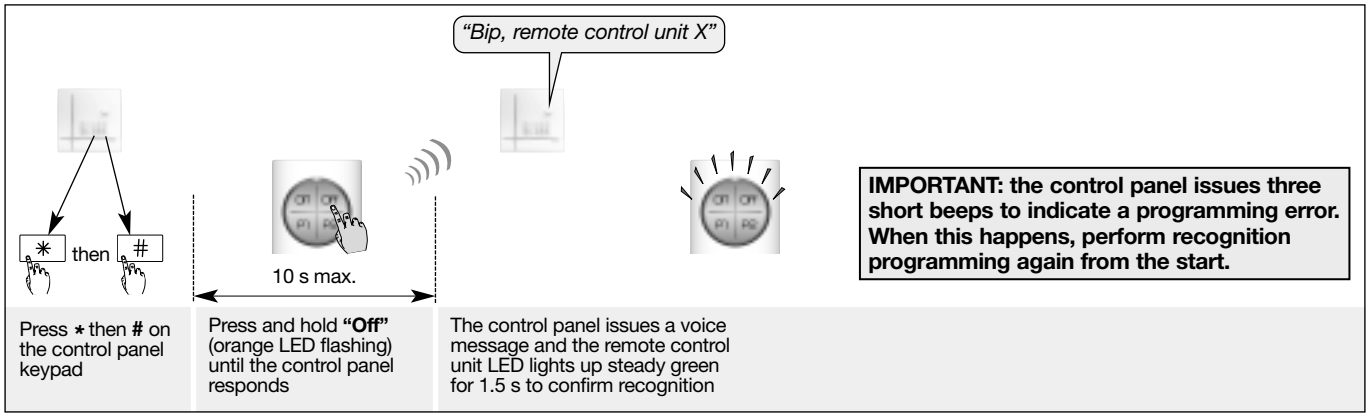
Factory: average sound level = 4

3. Recognition programming

Recognition programming makes it possible for a product (remote control unit, detector, etc.) to be recognised by the control panel. The control panel allocates a number to each product programmed for recognition in chronological order of programming.
For products that need to be relayed, control panel recognition programming must be done via a radio repeater relay (see Radio repeater relay installation manual).

IMPORTANT
- **To perform recognition programming operations, the control panel must be in installation mode.**
- **During recognition programming, the product to be programmed for recognition does not need to be close to the control panel. In fact, it is advisable to move it at least 2 metres away from the control panel.**

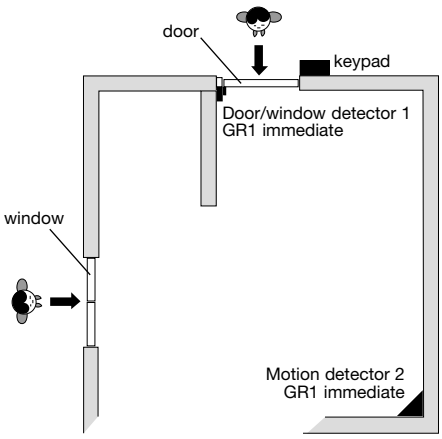
3.1 Programming a remote control unit to be recognised by the control panel


"Bip, remote control unit X"
* then #
10 s max.
IMPORTANT: the control panel issues three short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.
Press * then # on the control panel keypad
Press and hold "Off" (orange LED flashing) until the control panel responds
The control panel issues a voice message and the remote control unit LED lights up steady green for 1.5 s to confirm recognition

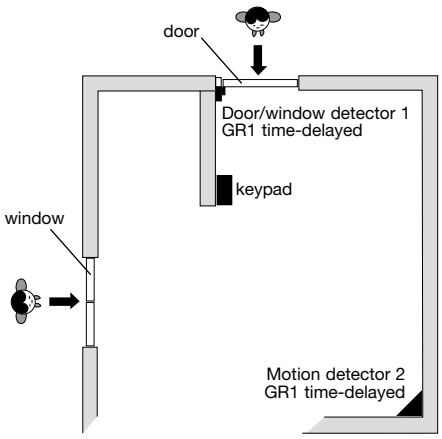
3.2 Programming an intrusion detector to be recognised by the control panel

Different types of triggering possible:
- immediate,
- time-delayed,
- combined.

Immediate triggering
In the event of intrusion, the alerts and deterrents are immediately triggered.

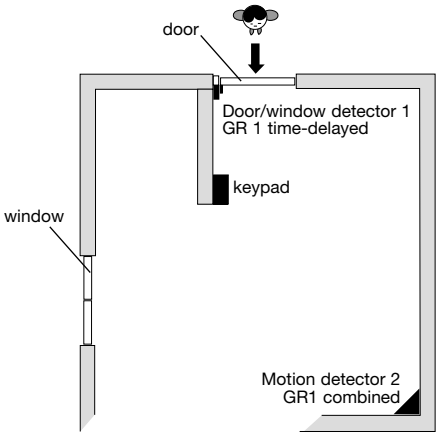


Time-delayed triggering
In the event of intrusion, the alerts and deterrents are triggered at the end of the entrance time delay.

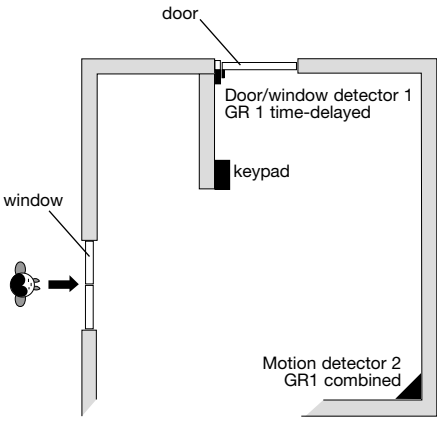


Combined triggering
A combined detector is immediately triggered if it is activated first. Its triggering is time-delayed if another time-delayed detector is activated first.

Example:
- The user enters his/her home:
  Door/window detector 1 is activated and **motion detector 2** becomes **time-delayed** hence allowing the user to reach the keypad to disarm the system.

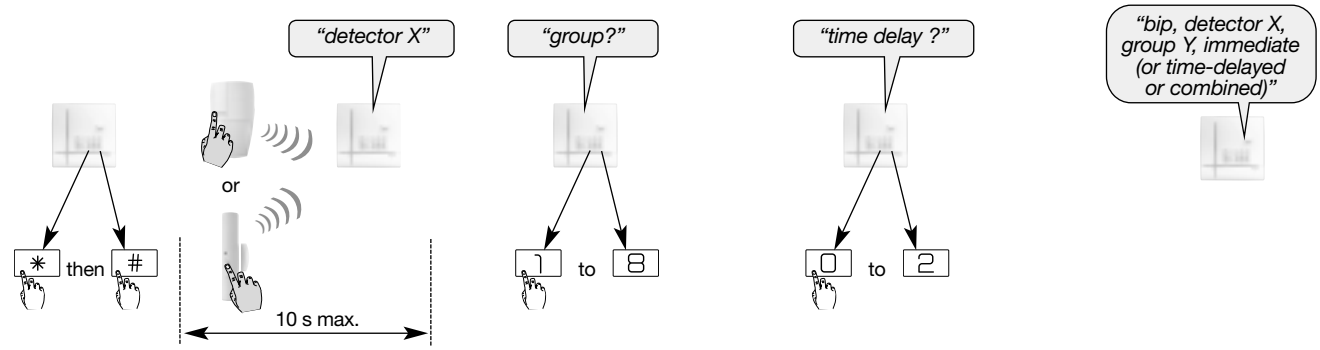


- In the event of intrusion via the window:
  Door/window detector 1 is not activated, motion detector 2 triggering becomes immediate and the alerts and deterrents are immediately triggered.



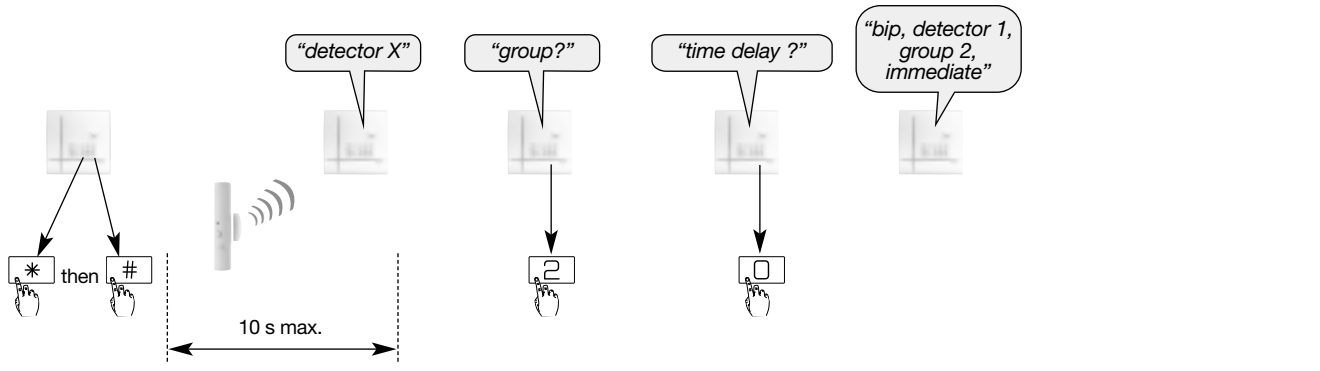
Detector recognition programming involves selecting:
- a protection group from 1 to 8 (according to the type of control panel),
- the type of triggering (immediate, time-delayed or combined).

Control panel reference	Number of groups	Number of detectors
SH320AU	2	20
SH340AU	4	40
SH380AU	8	80



Press * then # on the control panel keypad	Press and hold the **"test"** button until the control panel responds	Select a **group from 1 to 8*** (see table). Press the control panel keypad to make the selection.	Choose the type of triggering: **0: immediate • 1: time-delayed** **2: combined** Press the control panel keypad to make the selection	The control panel issues a voice message to confirm detector recognition programming.

Example: programming 1st door/widow detector, allocated to **group 2** and set for **immediate triggering**. The control panel automatically allocates n° 1 to the first detector programmed.



IMPORTANT: the control panel issues three short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.

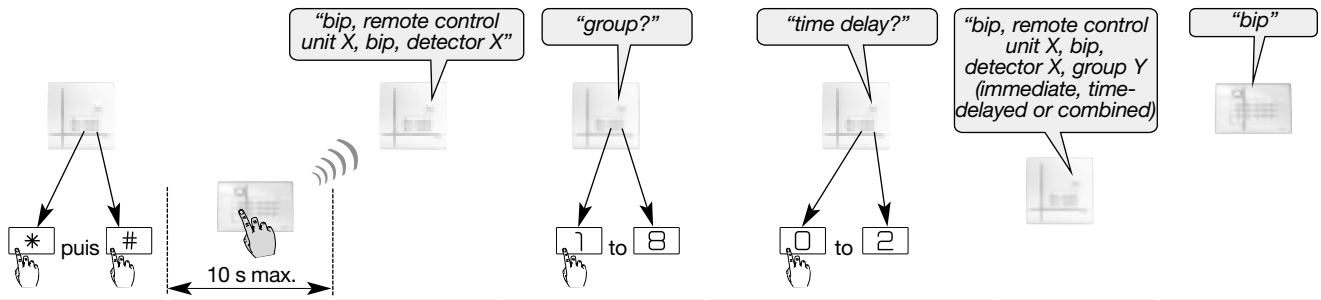
3.3 Programming the keypads to be recognised by the control panel

For recognition programming to work, the keypad must be in installation mode.
On power-up, the keypad is in user mode. To put it in installation mode, use the keypad to enter:

□□□□ # 2 # # then □□□□ # 3 # #

master code (factory: 0000) — installer code (factory: 1111)

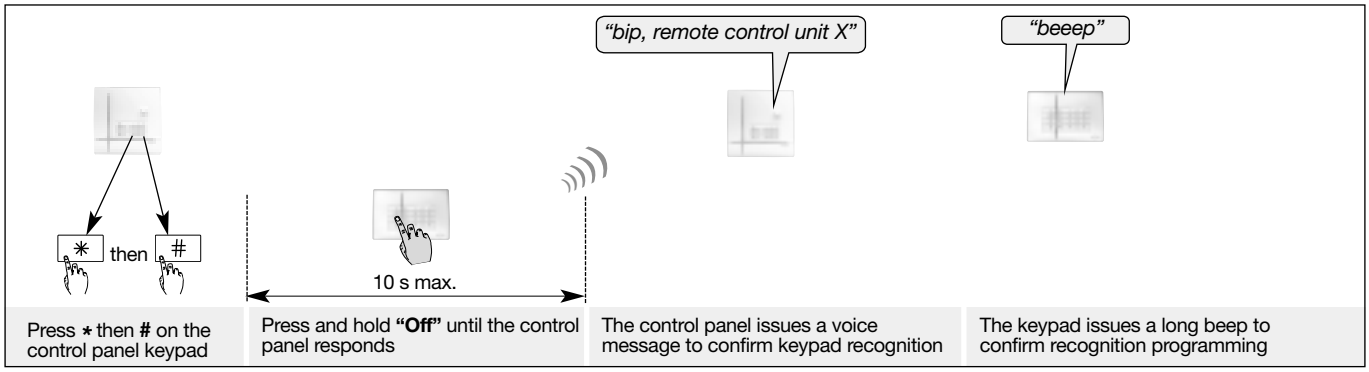
• With a vocal keypad with tag reader SH640AX:



Press * then # on the control panel keypad	Press and hold the **"Off"** button until the control panel responds	The control panel issues a voice message to confirm keypad recognition programming	The control panel waits to know the infrared detector **group (from 1 to 8 according to the type of control panel).** Press the control panel keypad to select the group.	The control panel waits to know the chosen triggering type for the infrared detector: **0: immediate,** **1: time-delayed,** **2: combined.** Press the control panel keypad to make the selection	The control panel issues a voice message to confirm infrared detector recognition programming	The keypad issues a long beep to confirm recognition programming

IMPORTANT: the control panel issues 3 short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.

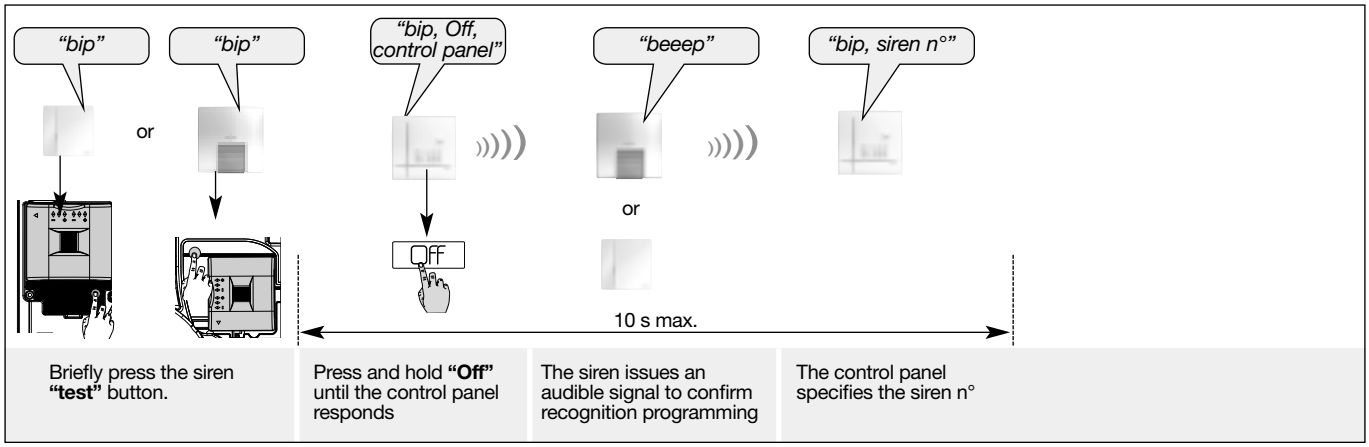
• With an information and command keypad SH630AX:


"bip, remote control unit X"
"beeep"
* then #
10 s max.
Press * then # on the control panel keypad
Press and hold "Off" until the control panel responds
The control panel issues a voice message to confirm keypad recognition
The keypad issues a long beep to confirm recognition programming

IMPORTANT: the control panel issues 3 short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.

3.4 Programming a control panel with the siren

When powered, the siren is in installation mode



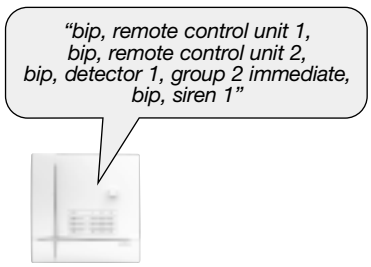
IMPORTANT: the control panel issues 3 short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.

3.5 Checking recognition programming

When checking programmed products, the control panel issues voice messages in the following order:
- remote control units,
- detectors,
- sirens,
- diallers,
- radio repeater relays or receivers.

To check all programmed products, use the control panel keypad to enter: # ⌝ ⌝ # #

Example of check:



3.6 Deleting a programmed product

The control panel recognises 5 types of product according to their number.

Type of product	Number
Detector	2
Remote control unit	3
Siren	4
Dialler	5
Radio repeater relay or receiver	7

To **delete a programmed product**, enter: [*] [1] [9] [4] [*] [ ] [*] [ ] [*] [*]

type of product — product n°

Example:
To delete the 2nd programmed siren, enter: [*] [1] [9] [4] [*] [4] [*] [2] [*] [*]

IMPORTANT:
- **If a radio repeater relay is deleted, all relayed products are not automatically deleted. Each product must be deleted from the control panel.**

- To delete a keypad, proceed as follows:
- **put the system in installation mode using the KEYPAD to enter:**

[ ][ ][ ][ ] [#] [2] [#] [#] **then** [ ][ ][ ][ ] [#] [3] [#] [#]

master code — installer code

2. USING THE CONTROL PANEL, enter: [*] [1] [9] [4] [*] [3] [*] [ ] [*] [*]

keypad n°

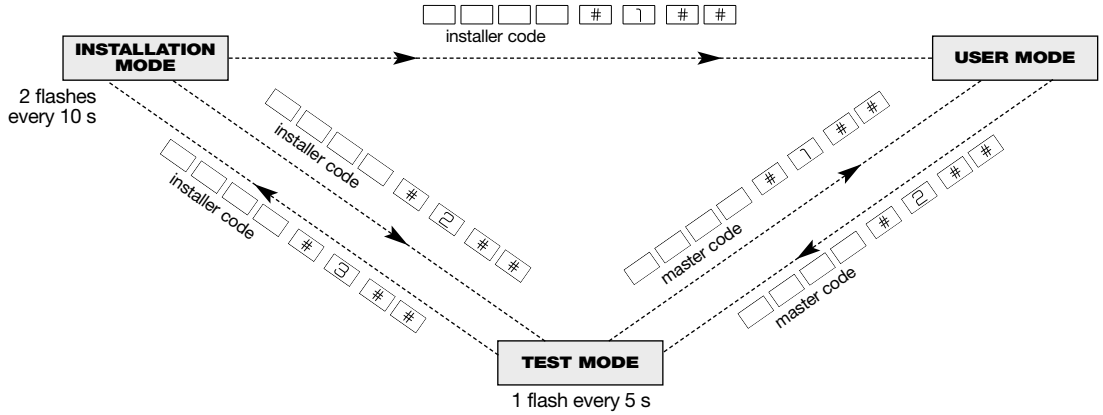
3.7 Deleting all recognition programming

To delete all programmed products, enter: [*] [1] [9] [5] [*] [*] [*]

press and hold

4. Changing operating modes

The operating mode is changed using the factory master code “0000” then the factory installer code “1111” as shown below:



IMPORTANT: for security reasons, the control panel automatically switches back to user mode after 4 hours without a command being issued.

The control panel keypad or command keypad can be used to check the mode.

Operating mode	Keypad sequence	Message
INSTALLATION MODE	# 4 # #	system status, installation mode and any faults e.g. *“bip, system status, **installation mode**”*
TEST MODE	# 4 # #	system status, test mode and any faults e.g. *“bip, system status, **test mode**”*
USER MODE	master code # 4 # #	system status (disarming and any faults) e.g. *“bip, system status, **off**”*

5. Main parameter-setting operations

IMPORTANT: all parameter-setting must be performed using TwinLoad® software available in the Installers section at www.daitem.co.uk.

5.1 Modifying access codes

If the system has a command keypad, any modifications to the control panel must be repeated on the command keypad.
To ensure system confidentiality, access codes must be modified:
- the master code for use by the user,
- the installer code.

The master code can be modified in the 3 operating modes:

Number of access code digits

Before modifying access codes, the **number of access code digits** must first be determined.
This modification must be done using the factory code.

Extending the number of digits applies to:
- the master code,
- the installer code,
- the remote monitoring centre code.

Number of digits	Factory code		
	installer	master	remote monitoring centre
4 (factory)	1111	0000	2222
5	11111	00000	22222
6	111111	000000	222222

To modify the number of digits, enter: ✱ 6 9 ✱ ☐ ✱ ✱

number of digits (from 4 to 6)

Example:
To extend access codes to 6 digits, enter: ✱ 6 9 ✱ 6 ✱ ✱

"bip, 6"

5.2 Modifying the master code

The master code is designed for the main user and allows the following:
- complete use of the system (all commands),
- access to TEST mode and USER mode,
- remote operation of the system over the phone,
- control (authorisation or inhibition) of User codes,
- control of access to remote management and remote configuration.

To ensure system confidentiality, access codes must be modified.

To do this, enter:

☐☐☐☐ ✱ 5 0 ✱ ☐☐☐☐ ✱ ☐☐☐☐ ✱ ✱

old master code — new master code — new master code

Factory: 0000

Example:
To replace the factory master code "0000" with the new code "1234", enter:

0 0 0 0 ✱ 5 0 ✱ 1 2 3 4 ✱ 1 2 3 4 ✱ ✱

"beeep"

5.3 Modifying the installer code

Before modifying the installer code, check that the control panel is in installation mode.
To do this, proceed as follows:

☐☐☐☐ # 2 # # **then** ☐☐☐☐ # 3 # #

master code — installer code

The installer code is for use by the installer.
It allows access to system installation, programming and maintenance operations:
- INSTALLATION MODE access,
- remote configuration.

To ensure system confidentiality, the installer code must be modified.
To do this, proceed as follows:

☐☐☐☐ ✱ 5 1 ✱ ☐☐☐☐ ✱ ☐☐☐☐ ✱ ✱

old installer code — new code installateur — new code installateur

Factory: 1111

Example:
To replace the factory installer code “1111” with the new code “5678”, proceed as follows:

1 1 1 1 * 5 1 * 5 6 7 8 * 5 6 7 8 * *

“beeep”

5.4 Modifying the remote monitoring centre code (if transmission module installed)

• Modifying the remote monitoring centre code

To modify the remote monitoring centre code, proceed as follows:

□ □ □ □ * 5 2 * □ □ □ □ * □ □ □ □ * *

old remote monitoring centre code — *new remote monitoring centre code* — *new remote monitoring centre code*

“beeep”

Factory: 2222

5.5 Setting the date and time parameters

5.5.1 Date

The events memorised by the control panel are time and date-stamped. If an alarm is triggered or a fault occurs, this facilitates diagnosis.

To programme the date, enter:

* 7 0 * □ □ * □ □ * □ □ * *

day — month — year (for 2012, enter 12)

“bip + date announced”

Example:
To programme the 13th April 2012, enter:

* 7 0 * 1 3 * 4 * 1 2 * *

“bip, 13/4/2012”

To check the date, enter:

* 7 0 * # * *

“bip, 13/4/2012”

IMPORTANT
- **The date and time must be reprogrammed if the power supply is disconnected.**
- **The switch between summer and winter time is automatic.**

5.5.2 Time

Enter:

* 7 1 * □ □ * □ □ * *

hours — minutes

“bip + time announced”

Example:
To programme 11:07 AM, enter:

* 7 1 * 1 1 * 7 * *

“bip, 11:07”

To check the time, enter

* 7 1 * # * *

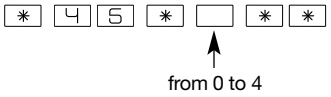
“bip, 11:07”

5.6 Blocking system arming

If a fault occurs, system arming can be blocked.
The control panel can be programmed for 5 types of response.

Response	Value
arming blocked disabled	0
arming blocked if at least one of the following faults occurs: • power fault • tamper fault • radio link fault • exits open ***It is possible to override blocked arming: 4 commands in less than 10 s.***	1
arming blocked if at least one of the following faults occurs: • tamper fault, • exit(s) open ***It is impossible to override blocked arming.***	2
blocked if supervision command not received within 20 min: • tamper fault • exit(s) open upon arming ***It is impossible to override blocked arming.***	3
blocked if supervision command not received within 20 min and exits checked upon arming and at the end of the exit time delay: • tamper fault • exit(s) open • management of open exits upon arming and during exit time delay. ***It is impossible to override blocked arming.***	4

To activate blocked system arming, enter:



IMPORTANT: the control panel issues 3 short beeps to indicate errors.

Factory: 4 (blocked if supervision command not received (20 min) and exits checked at the end of the exit time delay)

5.7 Setting the time delay parameters

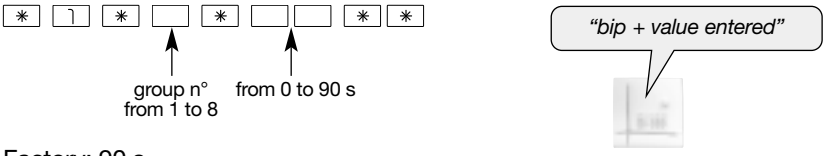
5.7.1 Exit time delay

NOTE: when arming several Groups with time delays, the longest time delay will be effective.

• To modify the exit time delay on all groups, enter:

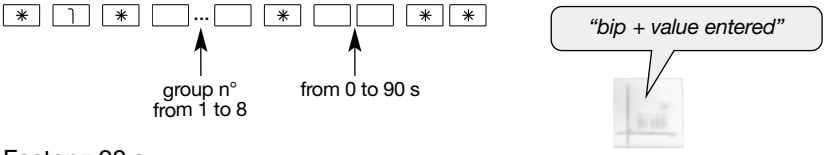
Factory: 90 s.

• To modify the exit time delay on one of the groups, enter:



Factory: 90 s.

• To modify the exit time delay on several groups, enter:

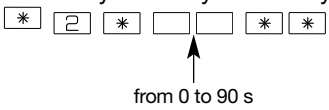


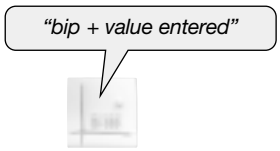
Factory: 90 s.

Example: for an exit time delay of 40 s for groups 1, 4 and 6, enter:

5.7.2 Entry time delay

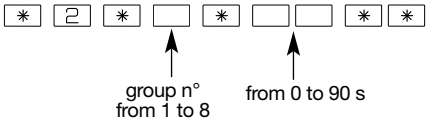
• To modify the entry time delay on all groups, enter:

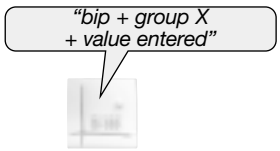




Factory: 20 s.

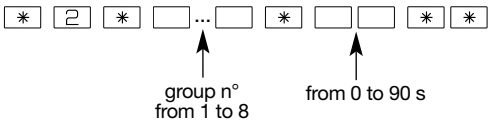
• To modify the entry time delay on one of the groups, enter:

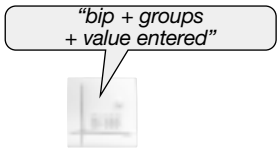




Factory: 20 s.

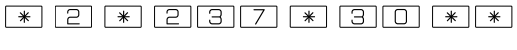
• To modify the entry time delay on several groups, enter:

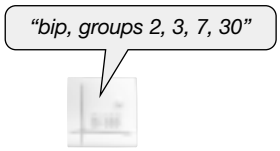




Factory: 20 s.

Example: for an entry time delay of 30 s for groups 2, 3 and 7, enter:

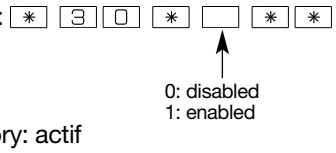




IMPORTANT: when several groups are armed, it is the longest time delay that is taken into account.

5.7.3 Entry route

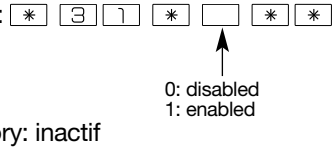
Enter:



Factory: actif

5.7.4 Exit route

Enter:

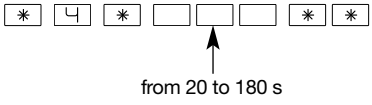


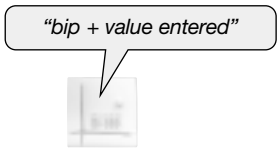
Factory: inactif

5.8 Setting the sounding parameters

5.8.1 Duration of sounding

To modify the duration of sounding, enter:

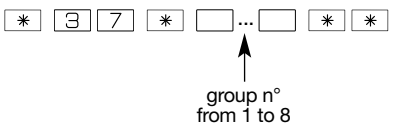




Factory: 90 s.

5.8.2 Allocation of sounding to a control panel with one or several groups

To allocate sounding to one or several groups, enter:



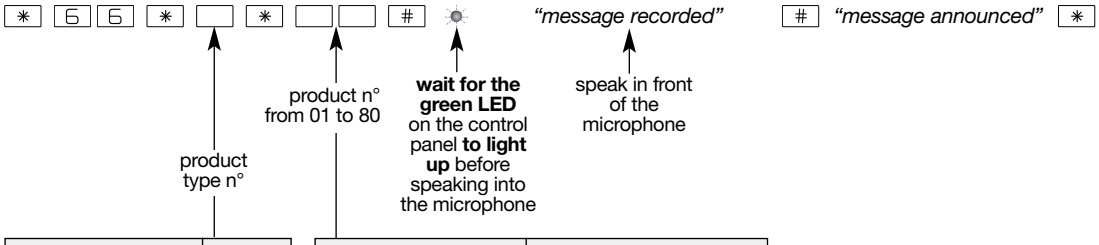
Factory: all groups

5.9 Vocal personalisation

5.9.1 Vocal personalisation of products (40 max)

In order to identify products more easily, a personalised voice message lasting 3 s maximum can be recorded.

To record the message, enter:

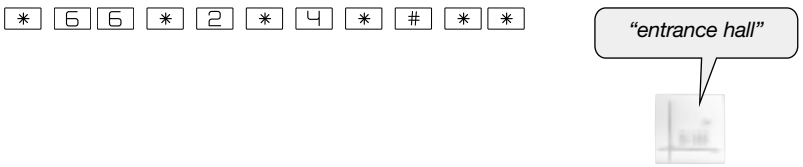

* 6 6 * □ * □□ # ☼ "message recorded" # "message announced" *
product type n°
product n° from 01 to 80
wait for the green LED on the control panel to light up before speaking into the microphone
speak in front of the microphone

Product type	Number
Hardwired input	0
Detector	2
Remote control unit	3
Siren	4
Dialler	5
Radio repeater relay or receiver	7

Control panel ref.	Number of detectors
SH320AU	20
SH340AU	40
SH380AU	80

Example of personalised message: detector 4 in "entrance hall", enter:

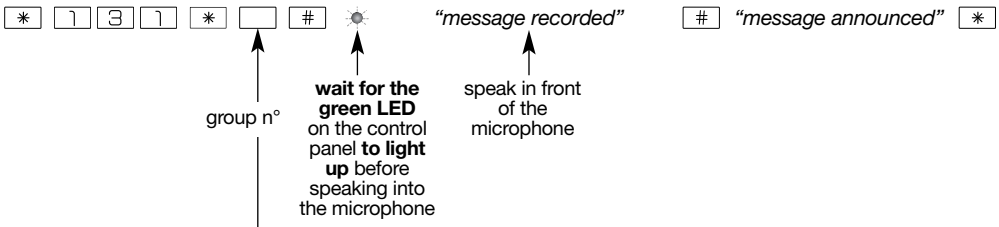
To check the identification message, enter:



5.9.2 Vocal personalisation of groups (1 to 8 groups according to the control panel)

In order to identify groups more easily, it is possible to record a personalised voice message lasting 3 s maximum.

To record the message, enter:


* 1 3 1 * □ # ☼ "message recorded" # "message announced" *
group n°
wait for the green LED on the control panel to light up before speaking into the microphone
speak in front of the microphone

Control panel ref.	Number of groups
SH320AU	2
SH340AU	4
SH380AU	8

Example of personalised message: group 2 on "1st floor", enter:

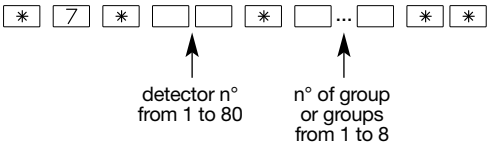
To check the identification message, enter:

5.10 Stopping the exit time delay when the last exit is closed

It is possible to automatically programme the exit time delay to end when the last exit is closed by determining the door/window detector that will arm one, several or all groups.
The exit time delay will be stopped as soon as the door where the detector is installed is closed.

IMPORTANT
- This function can be programmed on 8 door/window detectors maximum.
- The chosen detector must be allocated to one of the groups selected.

• To programme ending of the exit time delay on one or several groups, enter:



Control panel ref.	Number of groups
SH320AU	2
SH340AU	4
SH380AU	8

Example: to stop the exit time delay for groups 2 and 4 when detector 11 exit is closed, enter:

• To programme ending of the exit time delay for all groups, enter:

6. Advanced parameter-setting operations

INSTALLATION MODE

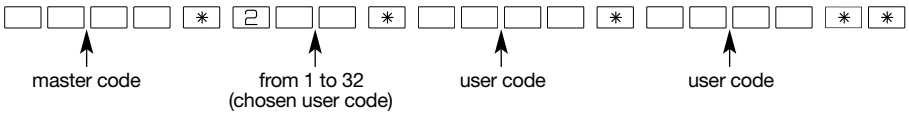
Modifying user codes

IMPORTANT: the user codes are not programmed in the factory configuration.

The user codes are for occasional users (service personnel, employees, etc.).
They are for limited and temporary use of the system:
• access restrictions to some commands or some groups can be programmed for each user code,
• each user code can be authorised or disabled at any time.

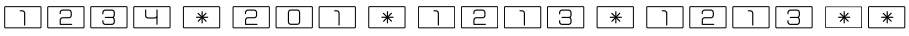
The control panel has 32 user codes.

To programme or modify a user code, enter:



IMPORTANT
• A long beep is issued to confirm programming.
• 3 beeps are issued to indicate a programming error.

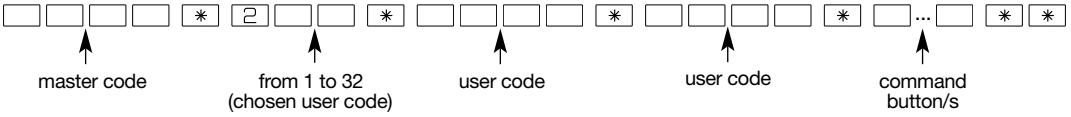
Example: using the master code "1234", programme **user code 1** "1213"



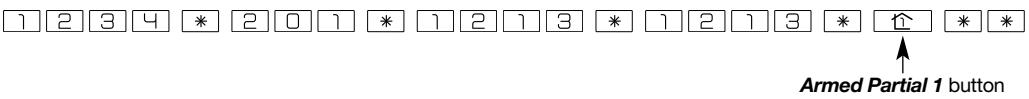
Restricted access of user codes

User codes can have separate and limited access to:
• certain command buttons,
• certain groups.
Only the commands or groups programmed can be accessed when the user code is entered.
When access is restricted to certain buttons, the group disarming and arming commands remain accessible.

• Restricted access to certain command buttons

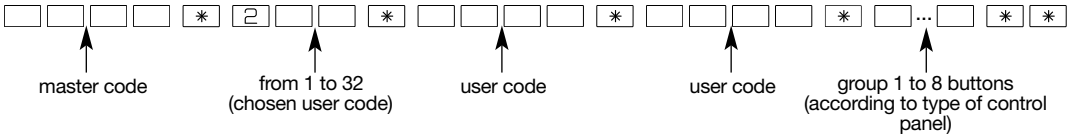


Example: to **restrict user code 1** to the **Armed Partial 1** command, enter:

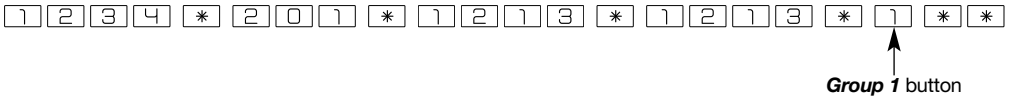


In this case, only the **Armed Partial 1** button can be accessed via user code 1.

• **Access restricted to certain groups**



Example: to **restrict user code 1** to **Group 1**, enter:



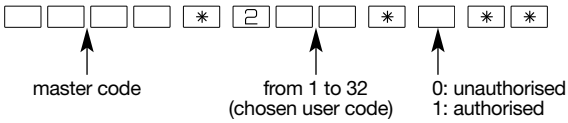
In this case, only the **Disarmed** or **Armed Group 1** button can be accessed via user code 1.

• **Combined restricted access to certain command buttons and certain groups**

Disabling or authorising a user code

A user code can be authorised or disabled in the 3 operating modes.
A programmed user code is automatically authorised.

To **disable** or **authorise** a user code, enter:



Examples:

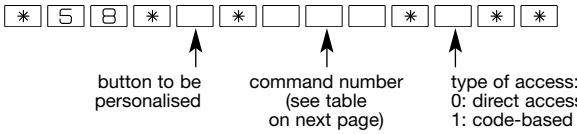
• To **disable user code 1**, enter

• To **authorise user code 1**, enter:

Personalising a command button

The **4 command buttons** on the control panel can be **personalised** to adapt the commands to the user's needs (see table below). Furthermore, this personalisation allows the user to select the type of access required to these commands (direct or via a code).

To personalise a button, enter:



IMPORTANT
- **In installation mode, the keypad commands can be accessed directly.**
- **All disarming and arming commands as well as the system status command can only be accessed via a code.**

Personalised commands

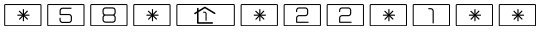
Command description	Command n°
Disarm (1)	21
Alert	22
Arm (1)	23
Silent alarm	24
Partially arm 1 (1)	25
Partially arm 2 (1)	27
Fire alarm	32
Arm presence	33
Silent command	36
Stop indications (1) (2)	37
Chime	38
Audible signal	42
No command	44

Command description	Command n°
Off light	52
On light	54
Light toggle switch	56
Light timer	58
Off relay 1	62
On relay 1	64
Relay 1 toggle switch	66
Relay 1 timer	68
Off relay 2	72
On relay 2	74
Relay 2 toggle switch	76
Relay 2 timer	78
Off relay 3	82

Command description	Command n°
On relay 3	84
Relay 3 toggle switch	86
Relay 3 timer	88
Off relay 4	92
On relay 4	94
Relay 4 toggle switch	96
Relay 4 timer	98
Off relay control panel 1	112
On relay control panel 1	114
Off relay control panel 2	122
On relay control panel 2	124
System status (1)	129

(1) Command with code access only.
(2) Used to stop indications concerning a technical alarm, an alert or a tamper alarm without changing the system status.
Important: telephone transmissions are not interrupted.

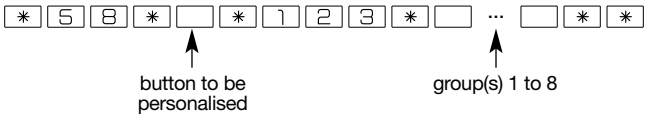
Example: to personalise the [⌂] buttons as an "Alert" with code-based access, enter:



Personalising a command button to arm or disarm groups 1 to 8

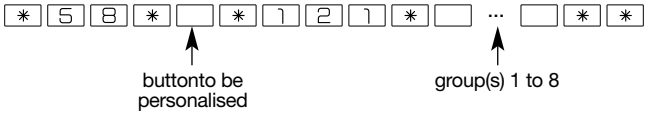
IMPORTANT: all disarm or arm commands can only be accessed via a code.

• **To personalise a button so that it arms groups 1 to 8**, enter:

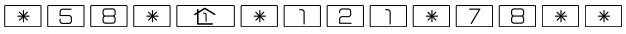


Example: to personalise the [⌂] button to arm groups 5 and 6:

• **To personalise a button to disarm groups 1 to 8, enter:**

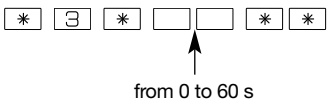


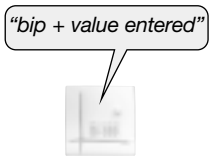
Example: to personalise the [⌂] button to disarm groups 7 and 8:



Delayed sounding

To **modify delayed sounding**, enter:





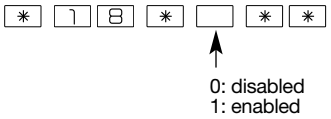
Factory-set sounding: 0 s, immediate

Manager reset

When an intrusion is confirmed, activating the manager reset parameter blocks system rearming.
Only the installer can unblock the system using the general reset authorisation command on the control panel keypad.
To unblock the system, enter: [ ][ ][ ][ ] # 5 0 6 # #

installer code

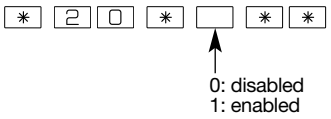
To activate this parameter, enter:

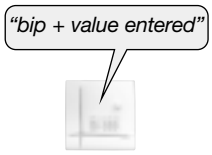


Factory: disabled

Activation of the built-in siren upon intrusion

To **modify siren triggering**, enter:



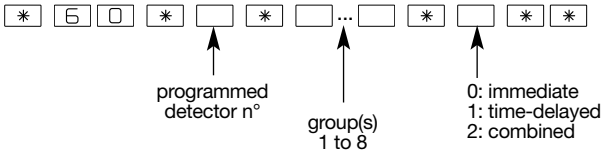


Factory: enabled

Allocation of a detector programmed for recognition

The allocation of a detector programmed for recognition can be modified using the control panel keypad during product recognition programming:
• groups 1 to 8 (according to the type of control panel),
• type of triggering (immediate, time-delayed or combined).

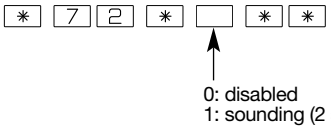
To modify a detector's allocation, enter:



Type of indication

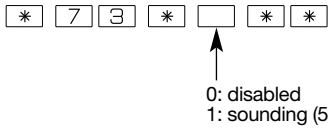
To modify the type of indication, enter:

• For warning:



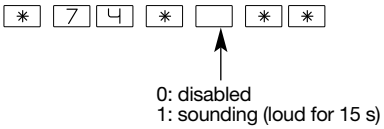
Factory: sounding (2 s)

• For deterrence:



Factory: sounding (5 s)

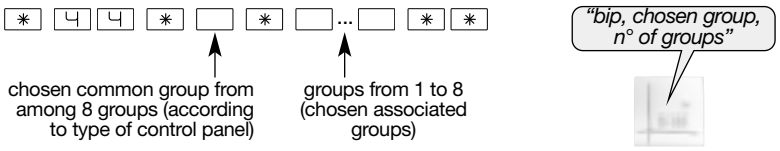
• For prealarm:



Factory: sounding (loud for 15 s)

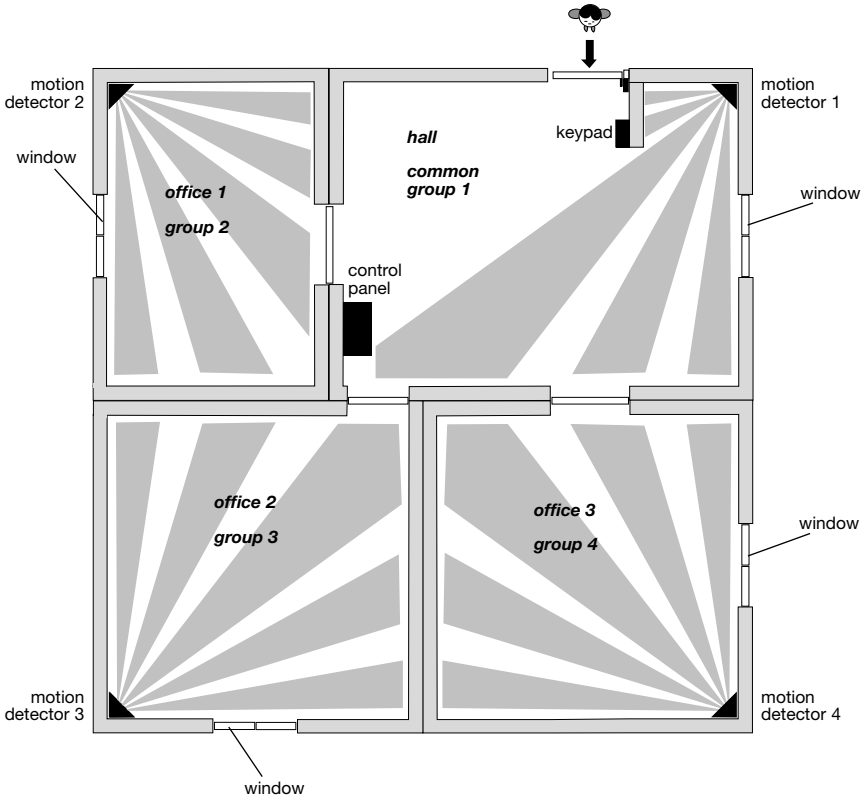
Common group

A common group can be programmed on the control panel and associated with other groups. This makes it possible to disarm and arm the system automatically depending on the state of the associated groups.
To programme a common group, enter:


chosen common group from among 8 groups (according to type of control panel)
groups from 1 to 8 (chosen associated groups)
"bip, chosen group, n° of groups"

Application example:

Groups 2, 3 and 4 are associated with group 1



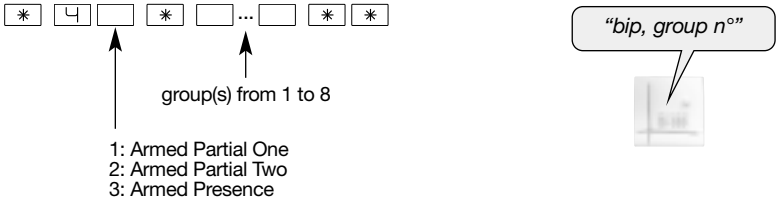
• Arming:
- when group 2 is armed: office 1 is protected,
- when group 3 is armed: office 2 is protected,
- when group 4 is armed: office 3 is protected,
- when the common group is armed: the hall is protected,

when the 3 groups (2, 3 and 4) are armed, the common group/hall is also armed.

• Disarming:
- when group 2 is disarmed: office 1 and the hall (common group) are disarmed,
- when group 3 is disarmed: office 2 and the hall (common group) are disarmed,
- when group 4 is disarmed: office 3 and the hall (common group) are disarmed,
- when the common group is disarmed: the hall is disarmed.

Selecting groups to be associated with Armed Partial One, Armed Partial Two or Armed Presence commands

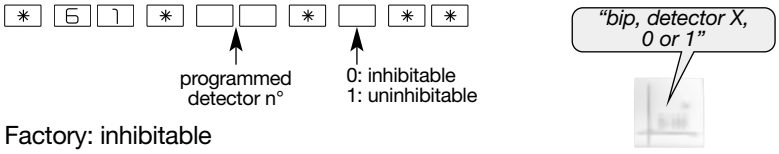
To select the active groups associated with Armed Partial One, Armed Partial Two or Armed Presence commands, enter:



Uninhibitable detector

If an exit is still open when the system is armed or a detector abnormally and repeatedly triggers, the control panel automatically inhibits the detector concerned.

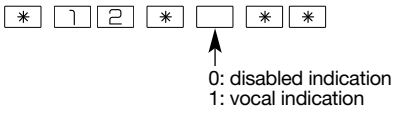
To delete this automatic inhibition, enter:



Factory: inhibitable

Type of command indications

To modify the type of indication, enter:



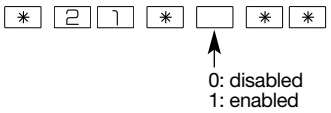
IMPORTANT: whatever the type of indication chosen, the speech synthesis system is temporarily reactivated to indicate possible alarms or faults.

Factory: vocal

"Protection active" indication

The control panel indicates that the system is armed by issuing a series of 4 beeps and the message "Protection active". The user has the entry time delay to disarm the system before the alarms are triggered.

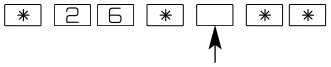
To modify this indication, enter:



Factory: enabled

Media fault indications

If the PSTN or GSM network is cut off, the control panel can trigger an alarm and a call via the back-up media. The system's response depends on the duration of the cut (more than 1 or 15 min).



0: events log alarm memorisation + vocal indication
1: events log alarm memorisation + vocal indication + fault message transmission if back-up media present
2: events log alarm memorisation + vocal indication + fault message transmission if back-up media present
+ start of alarm confirmation duration +
- if the system is totally armed and the PSTN is cut off > 1 min → 15 s triggering
- if the system is totally armed and the PSTN is cut off > 15 min or GSM is cut off → 90 s triggering
3: events log alarm memorisation + vocal indication + fault message transmission if back-up media present +
- if PSTN cut off > 1 min → 15 s triggering
- if PSTN cut off > 15 min or GSM cut off → 90 s triggering

Factory: events log alarm memorisation + vocal memorisation

Behaviour of system components in relation to the value of parameter 26 (detection of communication network cut)

<table>
<tr><th colspan="2">Control panel and control panel-dialler</th><th colspan="2">Stand-alone dialler</th><th colspan="2">Internal and external siren</th></tr>
<tr><td>0</td><td>events log alarm memorisation
+ vocal indication</td><td>0
1</td><td>no response
if back-up media is present, transmission of stand-alone dialler media loss and restoral alarms only</td><td>0
1
2</td><td>no response
in the event of a fault and whatever the value of parameter 26</td></tr>
<tr><td>1</td><td>events log alarm memorisation
+ vocal indication + fault message transmission
if back-up media present</td><td rowspan="3">0
1</td><td rowspan="3">no response
transmission of system media loss and restoral alarms</td><td rowspan="3">0
1
2</td><td rowspan="3">no response
loud sounding if totally armed
loud sounding 24/24</td></tr>
<tr><td>2</td><td>events log alarm memorisation
+ vocal indication + fault message transmission
if back-up media present
+ if system is totally armed:
<table><tr><td>if PSTN cut > 1 min</td><td>if PSTN cut or GSM interference > 15 min</td></tr><tr><td>15 s triggering</td><td>90 s triggering</td></tr></table></td></tr>
<tr><td>3</td><td>events log alarm memorisation
+ vocal indication + fault message transmission
if back-up media present
+ whatever the system status:
<table><tr><td>if PSTN cut > 1 min</td><td>if PSTN cut or GSM interference > 15 min</td></tr><tr><td>15 s triggering</td><td>90 s triggering</td></tr></table></td></tr>
</table>

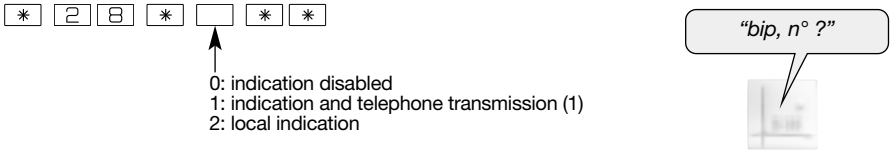
Example 1:
Parameter 26 on the control panel is set at 0. Whatever the configuration of the other devices and the duration of the media cut, the event will only be memorised in the events log and indicated vocally.

Exemple 2:
Parameter 26 is set at 2 on the control panel, at 1 on the dialler and at 1 on the internal and external sirens.

- **If the system is totally armed and the PSTN media cut (or GSM interference) lasts longer than 1 minute:**
  - the control panel will memorise the event in the events log, provide vocal indication of the event, transmit the fault message if back-up media is available and trigger the siren,
  - the stand-alone dialler will use the back-up media to transmit the media loss followed by the media restoral (when it becomes available again),
  - the sirens will trigger loudly.
- **If the system is disarmed or one or several groups are disarmed:**
  - the control panel will memorise the event in the events log, provide vocal indication of the event and transmit the fault message if back-up media is available,
  - the stand-alone dialler will transmit the media loss followed by the media restoral (when it becomes available again),
  - the siren will not respond.

Radio fault indications

To modify the control panel indication level in the event of faults, enter:

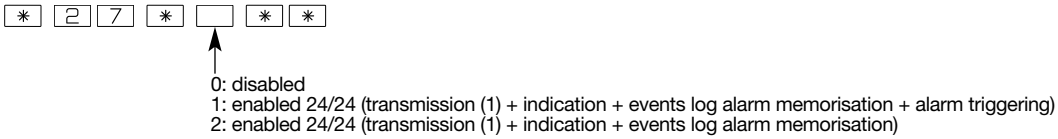


Factory: indication and telephone transmission (1)

Radio tamper

The control panel monitors the availability of radio links. If the radio links are tampered with, the control panel can trigger an alarm (loud sounding for 90 s).

To modify radio tamper alarm triggering, enter:


* 2 7 * _ * *
0: disabled
1: enabled 24/24 (transmission (1) + indication + events log alarm memorisation + alarm triggering)
2: enabled 24/24 (transmission (1) + indication + events log alarm memorisation)

Factory: enabled 24/24 (transmission (1) + indication + events log alarm memorisation)

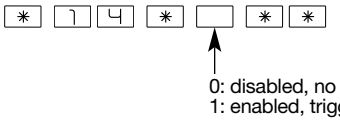
Management of tamper alarms in installation mode

If one of the system products triggers a tamper alarm, the control panel can activate:

- a telephone transmission (1),
- the relay outputs (if programmed for "all alarms" (2)),
- memorisation in the events log.

To modify this configuration, enter:

(1) If transmission module installed.
(2) If input/output card connected.

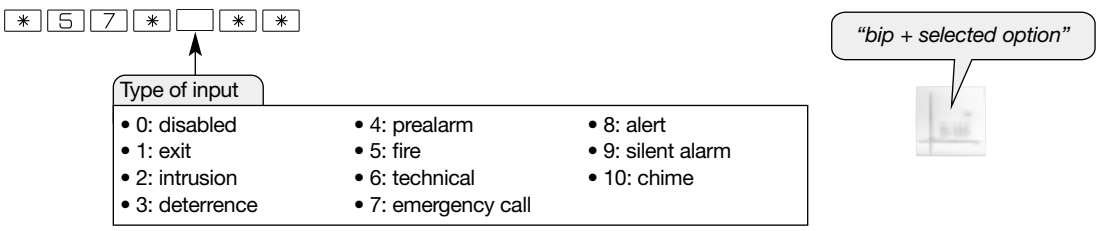


Factory: enabled

Programming connected inputs and outputs (if input/output card connected)

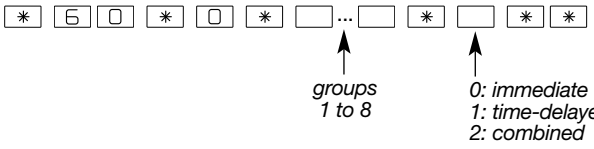
A. Programming hardwired inputs

The hardwired input can be programmed according to the control panel response required.
To set this parameter, use the control panel keypad and proceed as follows:



Factory: 2 (intrusion)

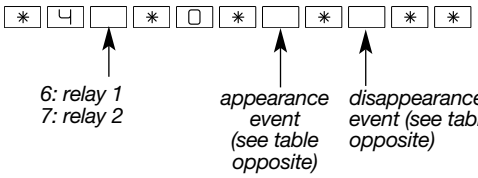
If the hardwired input is configured for an exit, intrusion, deterrence or prealarm, it is factory allocated to group 1 set for immediate triggering.
To modify this allocation, enter:



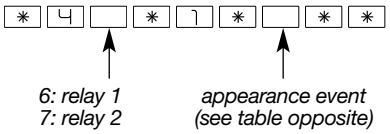
Factory: hardwired input allocated to group 1 set for immediate triggering

B. Programming the relay outputs
The control panel has 2 relay outputs.
Each relay can be programmed according to the type of alarm concerned.
To perform this programming, enter:

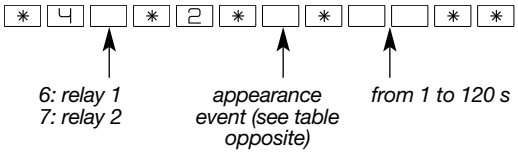
• Programming a bistable relay:



• Programming an impulse relay (0.5 s relay activation):



• Programming a timer relay:

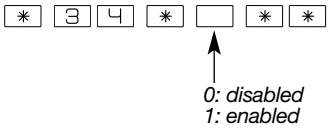


Appearance or disappearance event

- 0: manual (upon keypad or radio command)
- 1: single intrusion
- 2: confirmed intrusion
- 3: confirmed intrusion (+ tamper and alert command)
- 4: deterrence
- 5: prealarm
- 6: fire
- 7: technical
- 8: system disarmed
- 9: system armed
- 10: PSTN network cut
- 11: GSM network cut
- 12: ADSL network cut
- 13: main dialler unavailable
- 14: all

Blue light indication

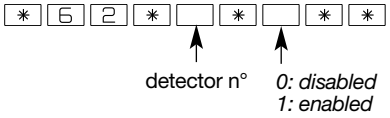
To activate or deactivate the control panel blue light, enter:



Factory: enabled

Setting the parameters of the chime function

When the system is disarmed, each time there is movement in front of the motion detector or each time a door/window detector is activated, the control panel issues a ding dong.
To perform this programming, enter:

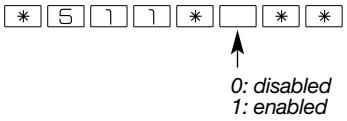


Factory: disabled

Setting the parameters of the automatic disarming/arming function

If activated, this function makes it possible to automatically send arm and disarm commands to the alarm control panel. Using TwinLoad® software, programming can apply to a 7-day period. Each programming point must be associated with a disarm or arm order.

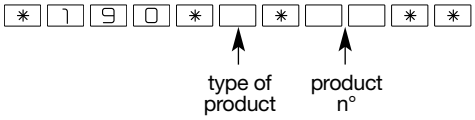
To perform this programming, use the control panel keypad and proceed as follows:



Factory: disabled

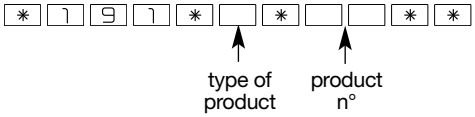
Inhibiting and reactivating a product

• To inhibit a product, enter:



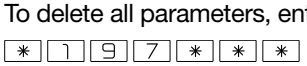
Type of product	Number
Detector	2
Remote control unit	3
Siren	4
Dialler	5
Radio repeater relay or receiver	7

• To reactivate a product, enter:



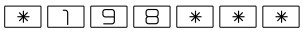
Deleting parameters

To delete all parameters, enter:



Overall deletion

To delete all recognition programming and return to the factory configuration, enter:



7. Installing and implementing control panel-dialler transmission

For the following types of installation:
- control panel **without transmission module:** follow the complete installation procedure as described in this manual.
- **control panel-dialler:** follow the complete installation procedure as described in the installation manual common to the control panel-dialler and stand-alone dialler: **"Setting the parameters and implementing transmission with the transmission module"** manual.

8. Installing a control panel without a transmission module

IMPORTANT: make sure there is a distance of at least 2 metres between each product, except between two detectors.

8.1 Choosing the best place to install the control panel

Position the control panel without fixing it:
- inside, in a protected area,
- on a flat and rigid surface close to an electrical socket if you are using a mains power supply,
- far away from any sources of disturbance (electricity meter or switchboard, computer equipment, a plant room, etc.),
- preferably in the centre of the installation,
- with enough clearance to facilitate cover opening and cable threading.

The control panel must never be fixed directly on to a metal surface.

For the control panel to work properly:
- never leave extra cable inside the box.
- do not wind cable around the box.

8.2 Testing the radio links

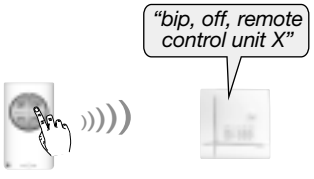
Before fixing the products in place, position them close to their final location and check the radio links with the control panel. If the link with the control panel is satisfactory, the control panel issues a voice message identifying the product activated.

8.2.1 Choosing the radio link test

In installation mode, the control panel is factory-configured to respond to the correct receipt of a radio message on one of the two frequency bands.
To modify this configuration, refer to the summary of parameters at the end of this manual.

8.2.2 Testing the remote control units

Press the **"Off"** button on the remote control units and the control panel will issue the voice message: *"bip, off, remote control unit X"*.



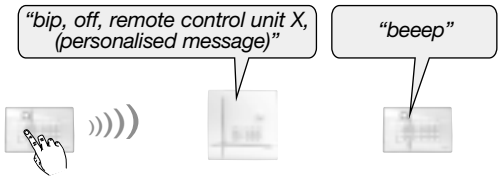
8.2.3 Testing the keypads

The keypads must be in installation mode. If they are not, enter:

[ ][ ][ ][ ] [#] [2] [#] [#] **then** [ ][ ][ ][ ] [#] [3] [#] [#]

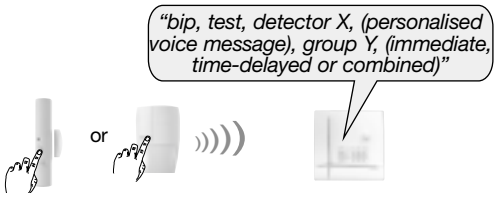
master code — installer code

Press the **"Off"** button on the keypads and the control panel issues the voice message: *"bip, off, remote control unit X, (personalised message)"*.



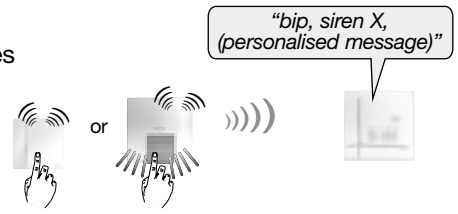
8.2.4 Testing the detectors

Press the "test" button on the detectors (> 5 s) and the control panel issues the voice message: *"bip, test, detector X, (personalised voice message), group Y, (immediate, time-delayed or combined)"*.



8.2.5 Testing the sirens

Press the **"test"** button (> 5 s) and the sirens issue a beep, their strobe flashes for 3 s and the control panel issues the voice message: *"bip, siren X, (personalised message)"*.



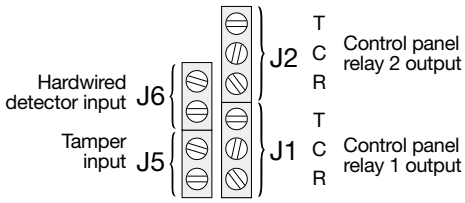
8.3 Connecting the relay outputs

If activated, the **"Tamper" input** (for connecting potential-free conductors only) protects one of the 2 wired outputs (see "Summary of parameters, parameter 48" in control panel manual).
Use a 0.22 mm² twisted wire with a maximum length of 200 m for the connection.
Relay outputs 1 and 2 are activated in relation to the chosen parameters (see "Summary of parameters, parameters 46 and 47").

Electrical characteristics of relay outputs:
- relay outputs 1 and 2 have 3 terminals:
  - 1 break: R
  - 1 common: C
  - 1 make: T
- 0.5 A 24 V AC or 1 A 30 V DC

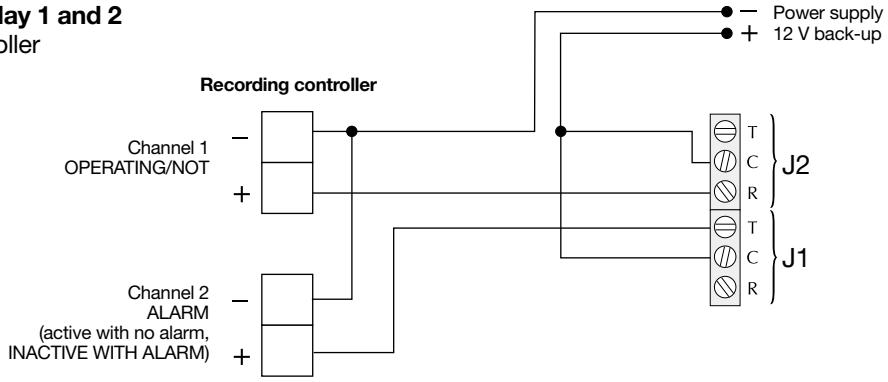
IMPORTANT: connect the outputs with the power off.

Electrical characteristics of the connection terminal block

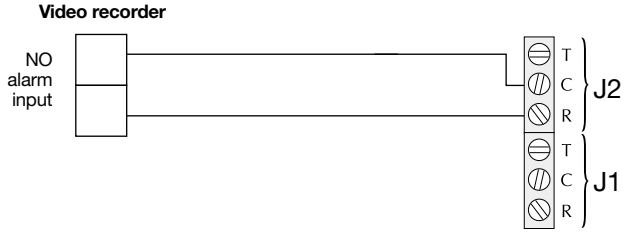


Do not connect the 230 V mains supply to the relay outputs.

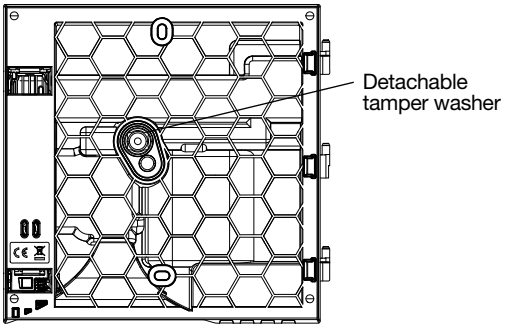
Example 1: connection of **relay 1 and 2 outputs** to a recording controller



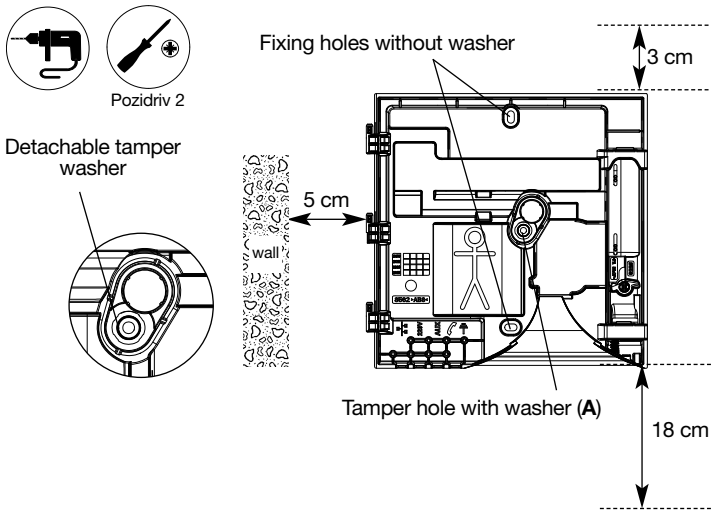
Example 2: connection of **relay 2 output** to NO alarm input of video recorder



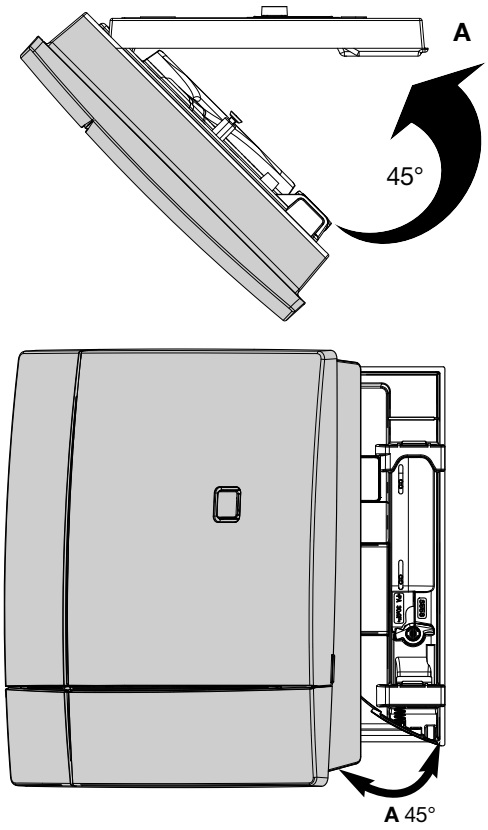
1. Remove the tamper washer located on the back of the base.



2. • To be able to install the control panel, there must be a clearance of 5 cm to the left and 3 cm on top of the base to allow for the hinge and a clearance of 18 cm below the base to open or lock the control panel.
• Fix the base at the 3 points using suitable plugs and screws.

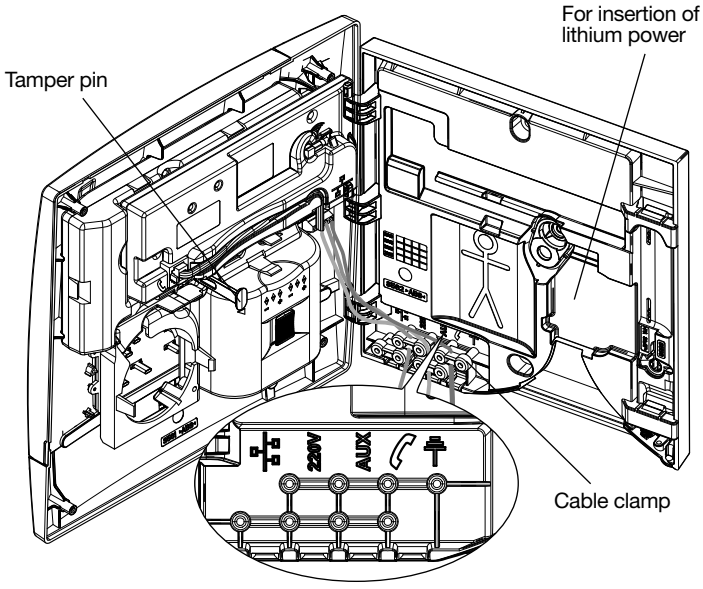


3. Position the control panel open at 45 ° (**A**) in relation to the base and place the base hinge pins inside the hinges.



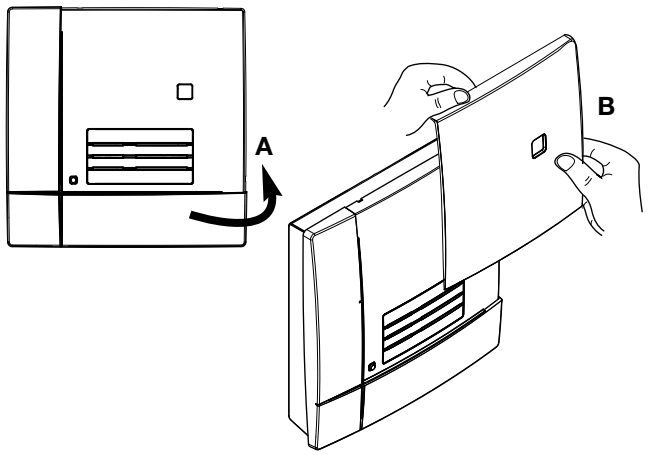
4. Thread each cable through the cable trough in the base and remove the pre-cut parts for cable insertion at the bottom of the base.

5. Position the cable clamp and tighten the cables enough so that they do not move when pulled (the cable clamp and screws are in the bag of accessories provided).

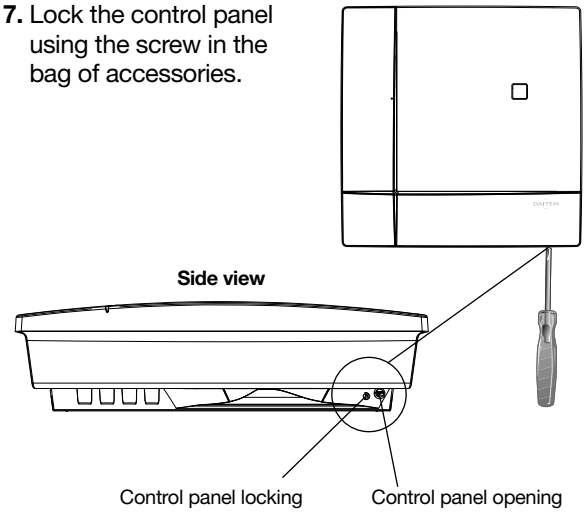


• Make sure there are no wires blocking the power pack compartment in the base and that the cover can be closed.
• Tighten the cables enough so that they do not move when pulled.

6. A. Close the control panel.
B. Put the cover back on.



7. Lock the control panel using the screw in the bag of accessories.



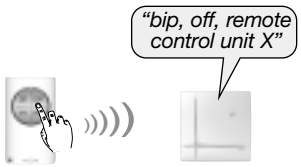
8.5 Checking products and radio links

To ensure long-lasting radio link reliability, once the products have been installed, **each radio link must be checked carefully.**
To do this, repeat the operations described below for all installed products.

This check must be performed in installation mode.

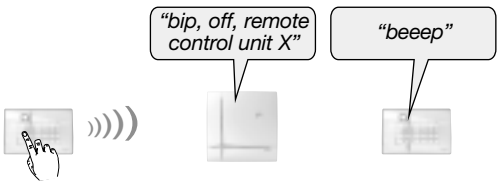
8.5.1 Checking remote control units

Press the **"Off"** button on the remote control units and the control panel will issue the voice message: *"bip, off, remote control unit X"*.



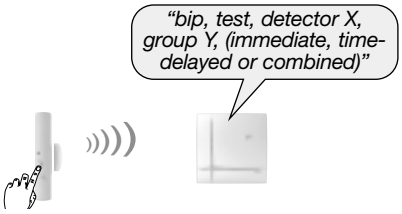
8.5.2 Checking keypads

Press the "**Off"** button on the keypads and the control panel will issue the voice message: *"bip, off, remote control unit X"*.



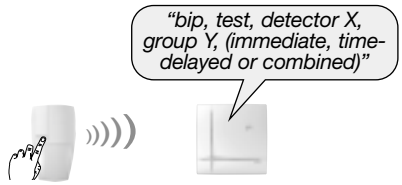
8.5.3 Checking door/window or multicontact detectors

- Press the **"test"** button on the detectors (> 5 s) and the control panel issues the voice message: *"bip, test, detector X, group Y, (immediate, time-delayed or combined)"*.
- Open the protected exits and the control panel will issue the voice message: *"bip, intrusion, detector X"*.



8.5.4 Checking motion detectors

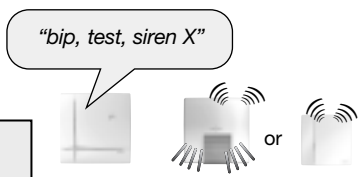
- Press the "test" buttonon the motion detectors (> 5 s) and the control panel issues the voice message: *"bip, test, detector X, group Y, (immediate, time-delayed or combined)"*.
- Move around in the area protected by the motion detectors and the control panel issues the voice message: *"bip, intrusion, detector X"*.



8.5.5 Checking sirens, radio repeater relays and receivers automatically

This test checks the two-way radio link between the control panel, sirens, r
adio repeater relays and receivers. The control panel queries and activates the sirens, radio repeater relays and receivers 3 times. Enter: [#] [5] [#] [#]

Example with siren: • the control panel issues the voice message: *"bip, test, siren X"*,
• the siren issues a continuous beep and its strobe flashes for 3 s.



IMPORTANT: if the sirens, radio repeater relays or receivers have a power supply fault (lithium power pack flat), the siren, radio repeater relay and receiver indications are followed by an audible signal specifying this fault.

9. Performing a real test

USER MODE

First put the system in user mode.

IMPORTANT
- **The sounding level of the siren can cause hearing disorders and the necessary precautions must therefore be taken when testing triggering.**
- **Let correspondents know beforehand.**

1. Close the exits and leave the protected areas **for a period of 90 s.**

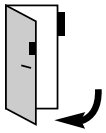
2. Arm the system

- on receipt of the command, the control panel responds: *"bip, Armed"*

3. Wait until the end of the exit time delay

- the control panel issues the voice message: *"Armed"*

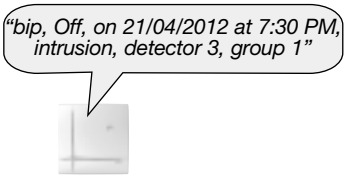
4. Enter a protected room



- the control panel and siren are triggered,
- the telephone dialler calls the programmed correspondents according to the type of event transmitted (1)

5. Let the sirens sound for 30 s then stop the system

- on receipt of the **"Off"** command, the sirens stop and the control panel issues the following type of voice message:



6. Check the alarm has been transmitted by telephone to the programmed correspondents (1) (2).

(1) If transmission module installed.
(2) Disarming the system stops transmission of the call to correspondents (for calls to individuals only).

10. Maintenance

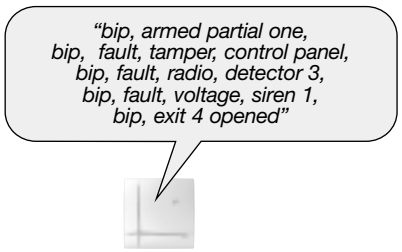
10.1 Fault indications

The control panel supervises and identifies products in the installation. It monitors the state of:
- the power supply,
- the radio links,
- the tamper contact,
- the availability of the telephone line (1),
- the exits.

If a fault has been memorised, the control panel issues a voice message to indicate the fault after one of the following system commands:
- arm,
- disarm,
- system status query.

The voice message indicates:
- the system status,
- the type of fault:
  - power,
  - radio,
  - tamper,
  - network (telephone line) (1)
  - exit (open or inhibited),
- the identity of the product with a fault.

Example following an Arm command:


"bip, armed partial one,
bip, fault, tamper, control panel,
bip, fault, radio, detector 3,
bip, fault, voltage, siren 1,
bip, exit 4 opened"

IMPORTANT
Each product provides local indication of its own power fault by:
- **its LED failing to light up (keypad and detector),**
- **an audible signal (siren).**

In spite of its power fault, the product continues to operate normally for several days.

10.2 Vocal alarm indications

Any alarms occurring since the last time the system was armed are indicated vocally by the control panel when the system is disarmed. The next time the system is armed, the alarms are deleted from the memory.
The vocal alarm memory can contain up to 10 alarms. These are indicated from the most recent to the oldest.

Vocal indications specify:
- the date and time the alarm occurred,
- the type of alarm,
- the identity of the product having triggered the alarm.

Example following a disarm command:

(1) If transmission module installed.

10.3 Consulting the events log

The events log contains the **last 1,000 time** and date-stamped events occurring in the system. It also keeps track of specific system operation and maintenance events.
The events log can be consulted:
- locally, using the control panel keypad,
- locally using the configuration tool,
- remotely using the data loading software (1).

The events log records:
- intrusion protection status changes,
- system remote commands (1),
- automatic inhibitions of exits remaining open,
- activation of each detector belonging to an armed group,
- alarms,
- fault occurrence and clearance,
- telephone transmissions (1),
- identification of intervention by remote access code (1),
- access for system configuration modifications,
- deactivation or reactivation of detectors (via data loading).

To access the events log locally using the control panel keypad:

1. Remove the cover.

2. Enter:

[ ][ ][ ][ ] [#] [2] [#] [#]

master code

[ ][ ][ ][ ] [#] [3] [#] [#]

installer code

[#] [1] [0] [#] [#] then press,

- [1] for next
- [2] for repeat
- [3] for previous
- [4] for fast forward (10 events at a time)
- [0] to end

Each event in the log is recorded with the following information:
- date and time,
- name of event,
- detection zone for intrusion alarms,
- identity of devices triggering the event.

Example:

(1) If transmission module installed.

10.4 Changing the battery

INSTALLATION MODE

IMPORTANT
- **If the activated product (except for the remote control unit) has a power fault (lithium power pack flat), the control panel indications are followed by the message *"fault, power supply"*.**
- **Before changing the battery, disconnect the telephone connector from the wall socket (1).**

The control panel monitors its own battery.
When a power fault occurs, the control panel issues the voice message *"fault, power supply"* following a command.

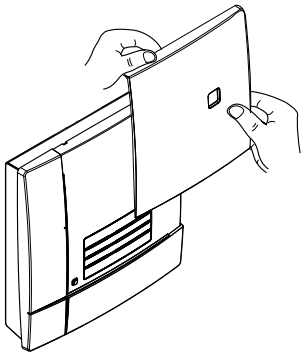
- **The lithium battery pack must be replaced with the same type of pack with the same technical characteristics, i.e. 2 x (3.6 V - 13 Ah).**
- **We advise you to use the DAITEM BatLi22 battery available in the catalogue in order to guarantee individual safety and equipment reliability.**
- **Dispose of the waste lithium power pack in an appropriate recycling bin.**

Li

To change the battery:

1. Disarm the system:

2. Remove the control panel cover.



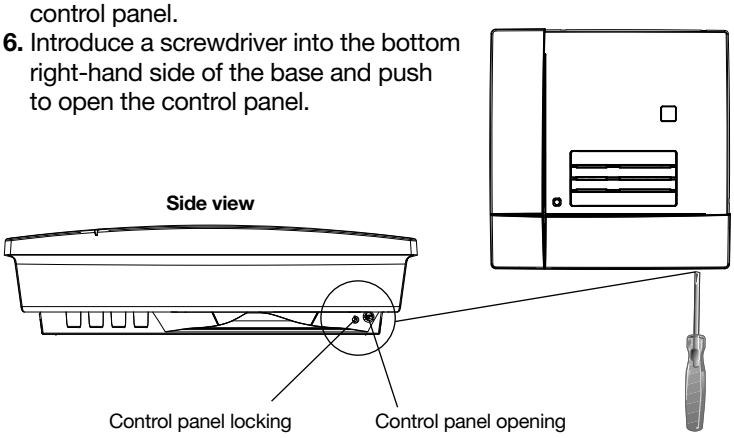
3. Put the control panel in installation mode

[ ][ ][ ][ ][#][2][#][#]
master code (Factory: 0000)

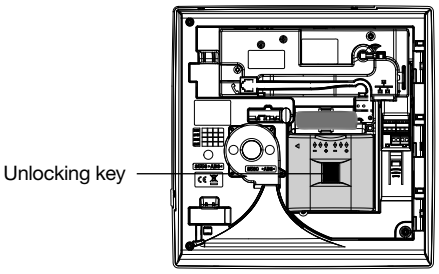
then,

[ ][ ][ ][ ][#][3][#][#]
installer code (Factory: 1111)

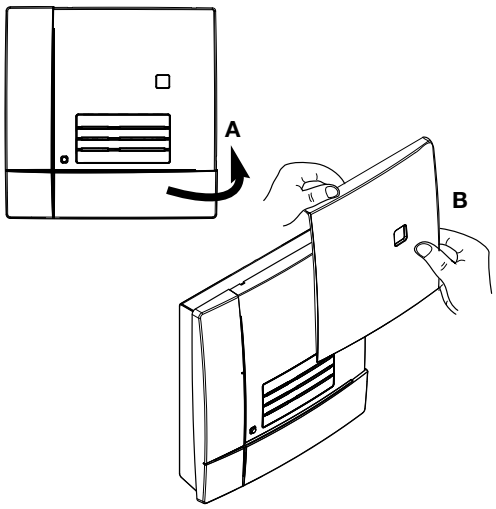
4. Disconnect the telephone connector from the wall socket (1).
5. Loosen the locking screw on the bottom right-hand side of the control panel.
6. Introduce a screwdriver into the bottom right-hand side of the base and push to open the control panel.



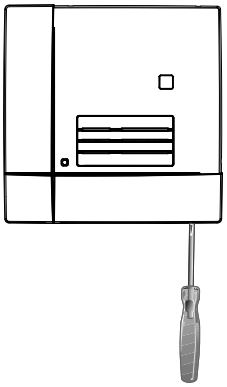
7. Press on the unlocking key and slide the flat lithium power pack downwards.
8. Wait for 2 min,
9. Position the new lithium power pack on the guide rails and slide it upwards until it locks into position.



10. A. Close the control panel.
B. Put the cover back on.



11. Lock the control panel using the screw.



12. Reconnect the telephone connector to the wall socket (1).

13. Put the control panel in user mode:

[ ][ ][ ][ ][#][1][#][#]

IMPORTANT: the date and time must be reprogrammed after changing the battery.

(1) If transmission module installed.

11. Appendix

Accessories and power supplies to be used for control panel-diallers

1. Transmission module SH501AX: PSTN + Ethernet (ADSL)

Power supplies and accessories to be used	References	Media used		
		PSTN only	PSTN + Ethernet (ADSL)	Ethernet (ADSL) only
Power supplies from the catalogue to be used				
200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A Internal mains power module	RXU01X	**Choice between:** • BatLi 22 (supplied) ***or*** • mains power module (order) + Li-Ion (order)	order	order
BatLi22 2 x (3.6 V, 13 Ah) Lithium power pack	BatLi 22		not used	not used
Li-Ion: 3.7 V/1.2 V Li-Ion rechargeable back-up battery	RXU03X		order	order
Accessories from the catalogue to be used				
RJ45/RJ45 Ethernet network cable	830-99X	/	order	order
PSTN cable: RJLL/T	851-99X	order	order	/
PSTN cable: RJ11/(RJ45-RJ-45)	856-99X	order	order	/
ADSL master filter (partial unbundling)	900-99X	/	order	order
IP cameras and/or image transmission detectors	see catalogue	/	order	order
Accessories to be used that are not available in the catalogue				
Mains connection cable for 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module	/	/	order	order
Cable clamp for mains connection cables	/	/	order	order
IP camera video connection cables	/	/	order	order
Bag of accessories: cable clamps + screws	/	supplied	supplied	supplied

2. Transmission module SH502AX: GSM/GPRS + Ethernet (ADSL)

Power supplies and accessories to be used	References	Media used		
		GSM/GPRS only	GSM/GPRS + Ethernet (ADSL)	Ethernet (ADSL) only
Power supplies from the catalogue to be used				
200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A Internal mains power module	RXU01X	**Choice between:** • BatLi 22 (supplied) + compulsory Li-Ion (supplied) ***or*** • mains power module (order) + Li-Ion (supplied) for GSM incoming calls	order	order
BatLi22 2 x (3.6 V, 13 Ah) Lithium power pack	BatLi 22		not used	not used
Li-Ion: 3.7 V/1.2 V Li-Ion rechargeable back-up battery	RXU03X		supplied	supplied
Accessories from the catalogue to be used				
RJ45/RJ45 Ethernet network cable	830-99X	/	order	order
GSM remote antenna	RXA03X	order	order	/
ADSL master filter **(partial unbundling)**	900-99X	/	order	order
IP cameras and/or image transmission detectors	see catalogue	order	order	order
Accessories to be used that are not available in the catalogue				
Mains connection cable for 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module	/	order according to power supply	order	order
Cable clamp for mains connection cables	/	order according to power supply	order	order
IP camera video connection cables	/	order	order	order
SIM card	/	order	order	order
Bag of accessories: cable clamps + screws	/	supplied	supplied	supplied

3. Transmission module SH503AX: PSTN + GSM/GPRS + Ethernet (ADSL)

<table>
<tr><th rowspan="2">Power supplies and accessories to be used</th><th rowspan="2">Ref.</th><th colspan="7">Media used</th></tr>
<tr><th>(PSTN+ GSM/GPRS) only</th><th>PSTN + GSM/ GPRS + ADSL</th><th>(PSTN + ADSL) only</th><th>(GSM/ GPRS + ADSL) only</th><th>PSTN only</th><th>GSM/GPRS only</th><th>ADSL only</th></tr>
<tr><td colspan="9">Power supplies from the catalogue to be used</td></tr>
<tr><td>200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A
Internal mains power module</td><td>RXU01X</td><td rowspan="3">Choice between:
• BatLi 22 (supplied) + compulsory Li-Ion (supplied)
or
• mains power module (order) + Li-Ion (supplied) for GSM incoming calls</td><td>order</td><td>order</td><td>order</td><td rowspan="3">Choice between:
• BatLi 22 (supplied)
or
• mains power module (order) + Li-Ion (supplied)</td><td rowspan="3">Choice between:
• BatLi 22 (supplied) + compulsory Li-Ion (supplied)
or
• mains power module (order) + Li-Ion (supplied) for GSM incoming calls</td><td>order</td></tr>
<tr><td>BatLi22 2 x (3.6 V, 13 Ah)
Lithium power pack</td><td>BatLi 22</td><td>not used</td><td>not used</td><td>not used</td><td>not used</td></tr>
<tr><td>Li-Ion: 3.7 V/1.2 V
Li-Ion rechargeable back-up battery</td><td>RXU03X</td><td>supplied</td><td>supplied</td><td>supplied</td><td>supplied</td></tr>
<tr><td colspan="9">Accessories from the catalogue to be used</td></tr>
<tr><td>RJ45/RJ45
Ethernet network cable</td><td>830-99X</td><td>/</td><td>order</td><td>order</td><td>order</td><td>/</td><td>/</td><td>order</td></tr>
<tr><td>GSM remote antenna</td><td>RXA03X</td><td>order</td><td>order</td><td>/</td><td>order</td><td>/</td><td>order</td><td>/</td></tr>
<tr><td>PSTN cable: RJLL/T</td><td>851-99X</td><td>order</td><td>order</td><td>order</td><td>/</td><td>order</td><td>/</td><td>/</td></tr>
<tr><td>PSTN cable: RJ11/(RJ45-RJ-45)</td><td>856-99X</td><td>order</td><td>order</td><td>order</td><td>/</td><td>order</td><td>/</td><td>/</td></tr>
<tr><td>ADSL master filter
(partial unbundling)</td><td>900-99X</td><td>/</td><td>order</td><td>order</td><td>order</td><td>/</td><td>/</td><td>order</td></tr>
<tr><td>IP cameras and/or image transmission detectors</td><td>see catalogue</td><td>order</td><td>order</td><td>order</td><td>order</td><td>/</td><td>order</td><td>order</td></tr>
<tr><td colspan="9">Accessories to be used that are not available in the catalogue</td></tr>
<tr><td>Mains connection cable for 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module</td><td>/</td><td>order according to power supply</td><td>order</td><td>order</td><td>order</td><td>order according to power supply</td><td>order according to power supply</td><td>order</td></tr>
<tr><td>Cable clamp for mains connection cables</td><td>/</td><td>order according to power supply</td><td>order</td><td>order</td><td>order</td><td>order according to power supply</td><td>order according to power supply</td><td>order</td></tr>
<tr><td>IP camera video connection cables</td><td>/</td><td>order</td><td>order</td><td>order</td><td>order</td><td>/</td><td>order</td><td>order</td></tr>
<tr><td>SIM card</td><td>/</td><td>order</td><td>order</td><td>/</td><td>order</td><td>/</td><td>order</td><td>/</td></tr>
<tr><td>Bag of accessories: cable clamp + screws</td><td>/</td><td>supplied</td><td>supplied</td><td>supplied</td><td>supplied</td><td>supplied</td><td>supplied</td><td>supplied</td></tr>
</table>

4. Transmission module SH504AX: Ethernet (ADSL)

Power supplies and accessories to be used	References	Ethernet (ADSL) media
Accessoires présents au catalogue		
200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module	RXU01X	supplied
BatLi22 2 x (3.6 V, 13 Ah) lithium power pack	RXU03X	supplied
Accessoires à prévoir présents au catalogue		
RJ45/RJ45 Ethernet network cable	830-99X	supplied
ADSL master filter **(partial unbundling)**	900-99X	order
IP cameras and/or image transmission detectors	see catalogue	order
Accessoires non présents au catalogue		
Mains connection cable for 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A internal mains power module	/	order
Cable clamp for mains connection cables	/	order
IP camera video connection cables	/	order
Bag of accessories: cable clamp + screws	/	supplied

12. Summary of parameters

Access code parameters

Essential parameter-setting

Parameter description	Parameter-setting sequence	Factory parameters	Possible values	Page
Master code	*MMMM * 50 * ? ? ? ? * ? ? ? ? ***	0 0 0 0	code with 4, 5 or 6 digits	17
Installer code	*I I I I * 51 * ? ? ? ? * ? ? ? ? ***	1 1 1 1	code with 4, 5 or 6 digits	17
Remote monitoring	*RRRR * 52 * ? ? ? ? * ? ? ? ? ***	2 2 2 2	code with 4, 5 or 6 digits	18
User codes	*MMMM * 2 X X * UUUU * UUUU ***	-	X: 1 to 32	22
Access restricted to specific command button/s	*MMMM * 2 X X * UUUU * UUUU * T ***	-	T: personalised command button/s	22
Access restricted to specific groups	*MMMM * 2 X X * UUUU * UUUU * T ***	-	T: buttons of groups 1 to 8 (according to type of control	23
User code enabled/disabled	*MMMM * 2 X X * Y ***	user code non programmé	X: 1 to 32 Y: 0 = disabled 1 = enabled	23
Number of access code digits	** 69 * ? ***	4 chiffres	code with 4, 5 or **6 digits** (usage extérieur)	17

MMMM = master code I I I I = installer code RRRR = remote monitoring UUUU = user code

Consulting parameters

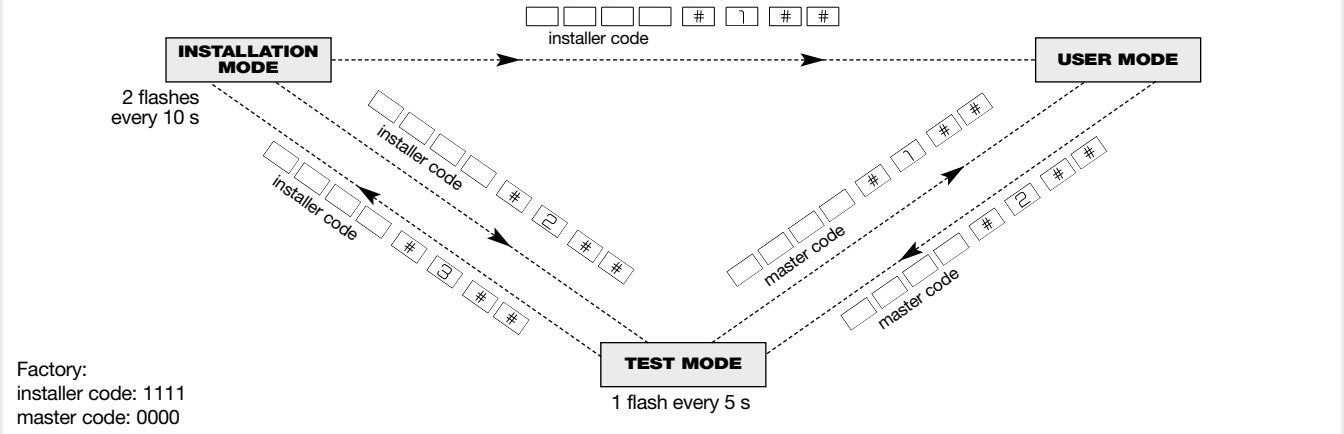
[*] [ ] ... [ ] [*] [#] [*] [*]

parameter n°

Return to factory default settings

[*] [ ] ... [ ] [*] [*] [0] [*] [*]

parameter n°



IMPORTANT: for security reasons, the keypad automatically switches back to user mode after 4 hours without a command being issued.

Consulting the events log

[#] [1] [0] [#] [#] then press,

- [1] for next
- [2] for repeat
- [3] for previous
- [4] for fast forward (10 events at a time)
- [0] to end

Control panel parameters

Essential parameter-setting

Parameter description	Parameter-setting sequence	Factory parameters	Possible values	Page
Exit time delay	** 1 * ? ? ***	90 s	0 to 90 s	19
Entrance time delay	** 2 * ? ? ***	20 s	0 to 90 s	20
Delayed sounding	** 3 * ? ? ***	0 s	0 to 60 s	24
Duration of sounding upon intrusion	** 4 * ? ? ? ***	90 s	20 to 180 s	20
End of exit time delay when last exit is closed	** 7 * D * G ***	-	D: detector n° G: group n° from 1 to 8	22
Audible indication level	** 11 * ? ***	average (=4)	1 to 8	11
Type of command audible indications	** 12 * ? ***	vocal	0: disabled 1: vocal	26
Activation of audible call and chime	** 13 * ? ***	enabled	0: disabled 1: vocal	
Acknowledgement of tamper alarms in installation mode	** 14 * ? ***	enabled	0: disabled, no triggering 1: enabled, triggering of telephone transmission**	27
Validation of message content on 1 or 2 bands	** 15 * ? ***	validation on 1 radio band	0: validation on 1 radio band 1: validation on 2 radio bands	
Deletion of built-in siren	** 16 * ? ***	siren enabled	0: siren enabled 1: siren disabled	
Choice of speech synthesis language	** 17 * ? ***	English	0: French 1: Italian 2: German 3: Spanish 4: Dutch 5: English	11
Manager reset	** 18 * ? ***	disabled	0: disabled 1: enabled	24
Triggering of built-in siren upon intrusion	** 20 * ? ***	enabled	0: disabled 1: enabled	24
Protection active indication	** 21 * ? ***	enabled	0: disabled 1: enabled	26
Siren triggering in Armed presence mode	** 22 * ? ***	enabled and vocal	0: disabled 1: enabled and vocal 2: enabled (loud 15 s)	
Media fault indications	** 26 * ? ? ***	events log alarm memorisation + vocal memorisation	0: events log alarm memorisation 1: events log alarm memorisation + vocal indication + fault message transmission if back-up media present** 2: events log alarm memorisation + vocal indication + fault message transmission if back-up media present + start of alarm confirmation duration + - if system is totally armed and PSTN is cut off > 1 min → 15 s triggering - if system is totally armed and PSTN is cut off > 15 min or GSM is cut off → 90 s triggering** 3: events log alarm memorisation + vocal indication + fault message transmission if back-up media present + - if PSTN cut off > 1 min → 15 s triggering - if PSTN cut off > 15 min or GSM cut off → 90 s triggering**	26
Radio tamper	** 27 * ? ? ***	enabled 24/24 transmission** + indication + events log alarm memorisation	0: disabled 1: enabled 24/24 (transmission** + indication + events log alarm memorisation + alarm triggering) 2: enabled 24/24 (transmission ** + indication + events log alarm memorisation)	27
Radio fault indication	** 28 * ? ? ***	indication and telephone transmission	0: indication disabled 1: indication and telephone transmission** 2: local indications	27
Entry route	** 30 * ? ***	enabled	0: disabled 1: enabled	20
Exit route	** 31 * ? ***	disabled	0: disabled 1: enabled	20
Blue light indication	** 34 * ? ***	enabled	0: enabled 1: disabled	28
Allocation of sounding to one or several groups	** 37 * ? ? ? ? ***	all groups	choice of group(s): 1 to 8*	20

* Depending on type of control panel ** If transmission module installed

Control panel parameters (cont.)

Parameter description	Parameter-setting sequence	Factory parameters	Possible values	Page
Groups enabled in Armed Partial One	** 41 * ? ? ? ? ***	group 1	choice of group(s): 1 to 8*	25
Groups enabled in Armed Partial Two	** 42 * ? ? ? ? ***	group 2	choice of group(s): 1 to 8*	25
Groups enabled in Armed Presence mode	** 43 * ? ? ? ? ***	group 1	choice of group(s): 1 to 8*	25
Programming of common group	** 44 * C * A ***	disabled	C: common group n° (from 1 to 8)* A: choice of association group(s) (from 1 to 8)*	25
Arming blocked	** 45 * ? ***	blocked if supervision command not received (20 min) and exits checked at the end of exit time delay	blocking condition 0: blocking disabled 1: blocking if faults 2: blocking if self-monitoring (mechanical tamper fault and fault on transmission media or exit(s) open) 3: blocking if supervision not received (20 min) 4: blocking if supervision not received (20 min) and exits checked at end of exit time delay	19
Relay 1 output activation	depending on the type of relay triggering • bistable: ** 46* 0 * A * D *** • impulse: ** 46 * 1 * A* • timer: ** 46 * 2 * A * T ***	type of relay triggering: bistable A and D = 0: manual	type of activation: A = event appearance D = event disappearance 0: manual (keypad or radio command) 1: single intrusion 2: confirmed intrusion 3: confirmed intrusion (+ tamper and alert command) 4: deterrence 5: prealarm 6: fire 7: technical 8: system disarmed 9: system armed 10: PSTN network cut 11: GSM network cut 12: ADSL network cut 13: main dialler unavailable 14: all T = relay activation duration: Impulse: 0.5 s Timer: from 1 s to 180 s	28
Relay 2 output activation	depending on the type of relay triggering • bistable: ** 47* 0 * A * D *** • impulse: ** 47 * 1 * A* • timer: ** 47 * 2 * A * T ***	type of relay triggering: bistable A and D = 0: manual	type of activation: A = event appearance D = event disappearance 0: manual (keypad or radio command) 1: single intrusion 2: confirmed intrusion 3: confirmed intrusion (+ tamper and alert command) 4: deterrence 5: prealarm 6: fire 7: technical 8: system disarmed 9: system armed 10: PSTN network cut 11: GSM network cut 12: ADSL network cut 13: main dialler unavailable 14: all T = relay activation duration: Impulse: 0.5 s Timer: from 1 s to 180 s	28
Relay tamper loop activation	** 48 * ? ***	disabled	0: disabled 1: enabled	-
Hardwired input programming	** 57 * T ***	disabled	T = input type: 0: disabled 1: exit 2: intrusion 3: deterrence 4: prealarm 5: fire 6: technical 8: alert 9: silent alarm 10: chime	27

* Depending on type of control panel ** If transmission module installed

Control panel parameters (cont.)

Parameter description	Parameter-setting sequence	Factory parameters	Possible values	Page
Command button personalisation	** 58 * T * C * AT ***	configuration 1 acces to commands via code	T: button to be personalised C: command n° (see table of personalised commands) AT: access type 0: direct access 1: access via code	23
Allocation of a programmed detector	** 60 * D * G * T ***	group 1	D: detector n° G: group n° from 1 to 8 T: time delay = 0: immediate 1: time-delayed 2: combined	24
Uninhibitable detector	** 61 * detector n° * ? ***	inhibitable	0: inhibitable 1: uninhibitable	26
Chime	** 62 * detector n° * ? ***	disabled	0: disabled 1: enabled	28
Vocal personalisation of products	** 66 * T * P # "message" # "message repeated" **	no pre-recorded message	T: product type 0: hardwired input 2: detector 3: command 4: siren 5: dialler** 7: radio repeater relay or receiver P: product n° from 0 to 80	21
Date	** 70 * DD * MM * YY ***	DD: 01 MM: 01 YY: 12	from 01 to 31 from 01 to 12 from 00 to 99	18
Time	** 71 * HH * MM ***	HH: 00 MM: 00	from 00 to 24 from 00 to 59	18
Type of warning indication	** 72 * ? ***	audible	0: disabled 1: audible	25
Type of deterrence indication	** 73 * ? ***	audible	0: disabled 1: audible	25
Type of prealarm indication	** 74 * ? ***	audible	0: disabled 1: audible	25
Vocal personalisation of groups	** 131 * G # "message" # "message repeated" **	no pre-recorded message	G: group n° from 1 to 8* max duration 3 s	21
Product inhibition	** 190 * T * product n° ***	-	T: product type: 2: detector 3: remote control unit 4: siren 5: dialler ** 7: radio repeater relay or receiver n°: product n°	29
Product reactivation	** 191 * T * product n° ***	-		29
Deletion of a programmed product	** 194 * T * product n° ***	-		15
Overall deletion of programming	** 195 ****	-	-	15
Deletion of access codes	** 196 ****	-	installer code: 1111 master code: 0000 remote monitoring code: 2222	15
Deletion of parameters	** 197 ****	-	return to factory parameters	29
Overall deletion	** 198 ****	-	overall deletion of recognition programming and return to factory parameters	29
Automatic Arm/Disarm function	** 511 * ? ***	disabled	0: disabled 1: enabled	28

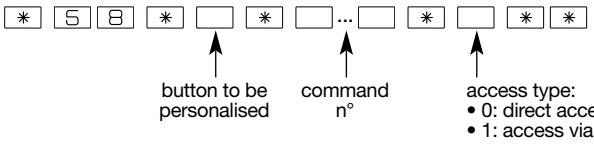
* Depending on type of control panel ** If transmission module installed

Summary of commands

Command description	Parameter-setting sequence	Page
Operating mode check	# 4 ##	16
Radio link check	# 5 ##	32
Programmed product programming check	# 11 ##	14

Commands for personalisation

Enter:



IMPORTANT
- **In installation mode, the keypad commands can be accessed directly.**
- **All Disarm or Arm commands as well as the System status command are accessed via a code.**

Command description	Command n°
Disarm (1)	21
Alert	22
Arm (1)	23
Silent alarm	24
Partially arm 1 (1)	25
Partially arm 2 (1)	27
Fire alarm	32
Arm presence	33
Silent command	36
Stop indications (1) (2)	37
Chime	38
Audible signal	42
No command	44

Command description	Command n°
Off light	52
On light	54
Light toggle switch	56
Light timer	58
Off relay 1	62
On relay 1	64
Relay 1 toggle switch	66
Relay 1 timer	68
Off relay 2	72
On relay 2	74
Relay 2 toggle switch	76
Relay 2 timer	78
Off relay 3	82

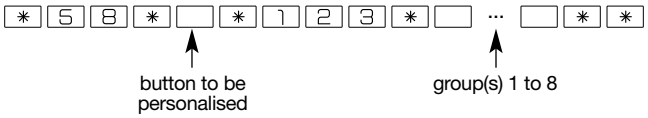
Command description	Command n°
On relay 3	84
Relay 3 toggle switch	86
Relay 3 timer	88
Off relay 4	92
On relay 4	94
Relay 4 toggle switch	96
Relay 4 timer	98
Off relay control panel 1	112
On relay control panel 1	114
Off relay control panel 2	122
On relay control panel 2	124
System status (1)	129

(1) Command with code access only.
(2) Used to stop indications concerning a technical alarm, an alert or a tamper alarm without changing the system status.
Important: telephone transmissions are not interrupted.

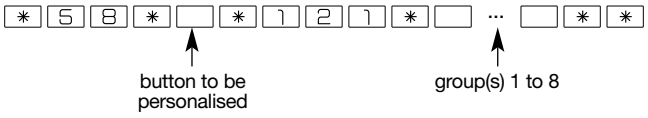
Personalising a command button to arm or disarm groups 1 to 8

IMPORTANT: all disarm or arm commands can only be accessed via a code.

• **To personalise a button so that it arms groups 1 to 8**, enter:



• **To personalise a button to disarm groups 1 to 8**, enter:



13. Technical data

Technical specifications	Control panel SH320AU • SH340AU • SH380AU
Power supply	• BatLi 22 lithium power pack: 2 x (3.6 V – 13 Ah) • or 200-240 VAC 50-60 Hz / 4.5 VDC 2.2 A mains power module backed up by Li-Ion 3.7 V 1.2 Ah battery (not supplied)
Battery life	5 years in normal conditions of use
Average current consumed	335 µA
Average humidity rate	from 5% to 75% without condensation at 25°C
Radio link	TwinBand®, 400/800 MHz
Control panel specifications	• SH320AU: 2 separate groups • SH340AU: 4 separate groups • SH380AU: 8 separate groups
	progressive deterrence
	personnel protection
	15 remote control units maximum
	• SH320AU: 20 intrusion detectors maximum • SH340AU: 40 intrusion detectors maximum • SH380AU: 80 intrusion detectors maximum
	10 deterrence devices maximum
	32 user codes
	• 5 radio repeater relays maximum • 3 diallers maximum (transmission module included)
	vocal personalisation of detectors (40 max)
	system saved to S.I.T.E. NVM stick (optional)
	built-in command keypad
	built-in remote control operation (if transmission module installed)
	log of last 1,000 date and time-stamped events
	2 hardwired outputs + 1 hardwired input (optional)
Operating temperature	- 10 °C to + 55 °C
Degrees of mechanical protection	IP 31 / IK 04
Environment	indoors
	degree of pollution: 2
	category of overpressure: II
	maximum altitude: 2 000 meters
Tamper protection	against opening
	against removal
	against line cuts (if transmission module installed)
	against attempts to discover radio codes
	against radio interference
Supervision	radio
	lithium power pack BatLi22 / 230 VAC mains power module / battery Li-Ion
	tamper
Siren acoustic power	108 dB(A) at 1 m
Audible alarm	built-in
Dimensions	232 x 232 x 67,7 mm
Weight (without battery)	1 200 g
Security grade	grade II according to EN 50131-3
Environmental class	class II according to EN 50130-5

Description of symbols

CE	The product is in conformity with the fundamental obligations as regards safety, of hygiene and environmental protection.
Risk of electric shock	Risk of electric shock.
Li	In order to avoid harming the environment and human health, you should not dispose of this product with normal household waste, do not not place in a waste bin with household waste. It must be given to a point of collection suitable for the categorisation, treatment, and recycling. The lithium power supplies contain substances which can pollute the environment. They must be given to an approved recycling centre.
	The power supply MUST be labelled with this symbol of double insulation, for a 230 VAC supply without ground connection.
	For indoor use only.
	The note must absolutely be consulted before installation, use and maintenance of the equipment.

14. Installation sheet (pull-out)

Customer name: _____ Date installed: |_|_|_|_|_|_|_|_|

List of detectors

Intrusion detector	Detector n°	Personalised message	Group	Time delay	Alarm level	Location
e.g. motion detector	*N° 1*	*control panel protection detector*	*1*	*Time-delayed*	*deterrence*	*dining room*

List of keypads and keyfobs

Keypad/keyfob type	Keypad/keyfob n°

List of sirens

Siren	Distribution

List of radio repeater relays

Radio repeater relay	Distribution

To obtain advice when installing your system or before returning equipment, please contact the Daitem technical support team (44 (0) 844 824 6693) or check the web site at:

www.daitem.co.uk

A team of qualified technicians will advise you what to do.

DECLARATION OF CONFORMITY 13

Manufacturer: **Hager Security SAS**
Address: **F-38926 Crolles Cedex - France**

Product type: **Control panel**
Trade mark: **Daitem**
We declare under our sole responsibility that the product to which this declaration relates is compliant with the essential requirements of the following directives:

- **R&TTE Directive: 99/5/EEC**
- **Low voltage directive: 2006/95/EC**
- **Directive ROHS: 2002/95/EC**

in compliance with the following harmonised European standards:

Products code	SH320AU	SH340AU	SH380AU
EN 300 220-2 V3.3.1	X	X	X
EN 50130-4 (95) + A1 (98) + A2 (2002)	X	X	X
EN 55022 & 55024 (2002)	X	X	X
EN 60950 (2006)	X	X	X
EN 301 489-1 V1.8.1	X	X	X

This product can be used in all EU, EEA Countries and Switzerland.

Crolles, 02.01.2013

Signature:
Patrick Bernard
Director of Research and Development

Non-binding document, subject to modification without notice.

DAITEM

805134/B - 05.2013